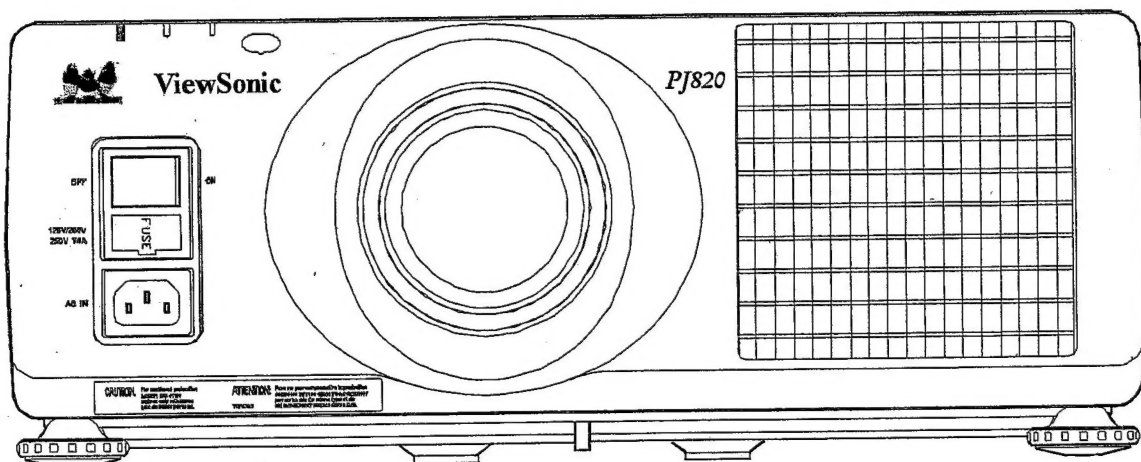


# Service Manual

## ViewSonic PJ820 Model No. VPRJ21357-2

### *Desktop Color LCD Projector Display*



(Rev. 1 - March 1998)

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## **Revision History**

<b>Revision</b>	<b>Date</b>	<b>Description Of Changes</b>	<b>Approval</b>
1.0	3/16/98	Initial Issue	T. Sears



# TABLE OF CONTENTS

<b>SERVICE WARNING .....</b>	<b>1</b>
<b>SPECIFICATIONS .....</b>	<b>1</b>
<b>PRECAUTIONS AND SAFETY NOTICES .....</b>	<b>3</b>
Safety Warning.....	3
Safety Precautions .....	3
Product Safety Notice.....	3
UV & High Pressure Lamp Precautions.....	3
<b>PRODUCT FEATURES .....</b>	<b>4</b>
Function and Control Locations .....	4
Screen Requirements .....	5
Set Up.....	6
Adjusting the Lens.....	7
System Configuration .....	8
Macintosh Adapter & Wireless Mouse.....	9
Serial Interface.....	10
Air Filter .....	11
Lamp Unit.....	12
Miscellaneous Functions .....	13
<b>DISASSEMBLY INSTRUCTIONS.....</b>	<b>15</b>
<b>MAINTENANCE, SERVICE, &amp; ADJUSTMENTS .....</b>	<b>22</b>
Self Diagnostic .....	22
Service Mode.....	23
Adjustment Procedure Flowchart .....	25
Test Point and Control Locations .....	25
Service Cautions .....	26
Adjustment Procedures.....	26
Troubleshooting Guide (Checking Point Procedure) .....	31
<b>PCB LAYOUT DRAWINGS.....</b>	<b>41</b>
<b>IC &amp; TRANSISTOR PIN-OUT GUIDE.....</b>	<b>55</b>
<b>SCHEMATICS, WIRING DIAGRAMS, &amp; BLOCK DIAGRAMS .....</b>	<b>59</b>
<b>EXPLODED VIEW AND PARTS LIST.....</b>	<b>89</b>
<b>REPLACEMENT PARTS LIST .....</b>	<b>94</b>

# Specifications

**Power supply:**  
100–120 V/220–240 V AC, 50/60 Hz

**Power consumption:**  
390 W (During stand by(when fan is stopped):  
Approx. 8 W (at 220–240 V)/7 W (at 100–120 V)

**Max amps:** 2.5 A(at 220–240 V)/4.5 A(at 100–120 V)

**LCD panel:**  
**Panel size (diagonal):** 33 mm (1.3")  
**Display method:** 3 transparent LCD panels (RGB)  
**Drive method:** Active matrix method

**Pixels:**  
1,440,000

**Lens:**  
F 2.5–3.1  
f 48–72  
Retractable lens mechanism

**Lamp:**  
Metal halide (280 W)

**Luminosity:**  
750 lm/ANSI (for normal white, 1,016 mm (40-inch screen))

**Scanning frequency:**  
During S-VIDEO/VIDEO signal input  
H 15.75/15.63 kHz, V 50/60 Hz  
During RGB signal input  
Built-in data selection (point scan) method  
H 23–69 kHz, V 50–85 Hz

**Projection size (diagonal):**  
762–7,620 mm (30–300 inches)

**Throw distance:** 1.0–16.2 m (3'3"–53'2")

**Optical axis shift:** ± 0/10

**Screen aspect ratio:** 4 : 3

**Installation:**  
Ceiling/Floor · Front/Rear (Menu selection method)

**Speaker:**  
4 cm × 2.85 cm (1<sup>9</sup>/<sub>16</sub>" × 1<sup>1</sup>/<sub>8</sub>") ellipse × 2 (stereo)

**Max.usable volume output :**  
2 W(1 W+1 W)(10%THD)

## Connection terminals:

**RGB IN:** Double-line D-SUB HD 15-pin (female)  
**R.G.B.:** 0.7 Vp-p (1.0 Vp-p at G-SYNC signal), 75 Ω

**HD/SYNC:** 0.6–8.0 Vp-p high impedance, automatic plus/minus polarity compatible

**VD:** 0.6–8.0 Vp-p high impedance, automatic plus/minus polarity compatible

**AUDIO IN:**  
Double-line 0.5 Vrms M3 jack (Stereo MINI)

**S-VIDEO IN:**  
Single-line, Mini DIN 4-pin  
Y 1.0 Vp-p, C 0.286 Vp-p, 75 Ω, NTSC/PAL/SECAM/NTSC 4.43-compatible

**VIDEO IN:**  
Single-line, RCA pin jack (S-VIDEO priority)  
1.0 Vp-p, 75 Ω, NTSC/PAL/SECAM/NTSC 4.43-compatible

**AUDIO IN L-R:**  
0.5 Vrms RCA pin jack × 2(L-R)

**AUDIO OUT terminal:**  
M3 jack (Stereo MINI) × 1(monitored output and stereo compatible)  
0–2.0 Vrms(variable)

**RGB OUT:** Single-line D-SUB HD 15-pin (female)  
**R.G.B.:** 0.7 Vp-p (1.0 Vp-p at G-SYNC signal), 75 Ω

**HD/SYNC:** TTL high impedance

**VD:** TTL high impedance

**SERIAL Input connector:**  
D-SUB 9-pin (male)  
For computer - controlled operation

**MOUSE Input connector:**  
13-pin round connector  
For wireless mouse function (PS/2, Macintosh and serial computer compatible)

## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

**Power cord length:**  
2.5 m (8'2")

**Dimensions:**  
**Width:** 421 mm (16<sup>9</sup>/<sub>16</sub>" )  
**Height:** 163 mm (6<sup>13</sup>/<sub>32</sub>" )  
**Length:** 300 mm (11<sup>13</sup>/<sub>16</sub>" ) (not including lens extension length)  
**Weight:** 9.8 kg (21.6 lbs.)

**Operating environment:**  
**Temperature:** 0–40°C (32 °F–104 °F)  
**Humidity:** 20~80% (not condensation)  
**Certifications:** EN60950, EN55022, EN61000-3-2, EN61000-3-3, EN50082-1

**<Remote control unit>**  
**Power supply:** 3V DC (two AA-size batteries)  
**Operation range:** 7 m (Approx. 23.0') (When Operated from directly in front of the signal receptor)  
**Weight:** 99 g (Approx. 0.218 lbs.) (with batteries)

**Dimensions:**  
**Width:** 46 mm (1<sup>13</sup>/<sub>16</sub>" )  
**Height:** 34 mm (1<sup>1</sup>/<sub>32</sub>" )  
**Length:** 180 mm (7<sup>3</sup>/<sub>32</sub>" )

## Accessories:

**Remote control unit (TNQE003):**  
1

**AA-size batteries:** 2

**Power cord:**  
**PT-L595E:** 1 (TXFSX02VTFZ, 250 V, 10 A)  
**PT-L595EG:** 1 (TXFSX02VTHZ, 250 V, 10 A)

**VGA cable (TSXF122):**  
1 (2.0 m[6'7"], D-SUB HD 15-pin [male] ↔ D-SUB HD 15-pin [male])

**Macintosh adapter (TJSF27000):**  
1 (D-SUB HD 15-pin [female] ↔ D-SUB HD 15-pin [male])

**PS/2 mouse cable (TSXF096):**  
1 (2.0 m[6'7"], 13-pin round [male] ↔ DIN 6-pin [male])

**Macintosh mouse cable (TSXF105):**  
1 (2.0 m[6'7"], 13-pin round [male] ↔ mini DIN 4-pin [male])

**Serial mouse cable (TSXF106):**  
1 (2.0 m[6'7"], 13-pin round [male] ↔ D-SUB 9-pin [male])

## Optional Accessories:

CEILING MOUNT BLACKET VPRJ21363

◆ Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

PJ820



# SAFETY PRECAUTIONS

## GENERAL GUIDELINES

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC Plug before disassembling this unit.
3. It is advisable to use an isolation transformer in the AC supply before servicing.
4. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
5. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shield, and isolation R-C combinations etc. are properly installed.
6. After servicing, be sure to restore the wires, leads, insulation barriers, shields, etc.
7. After servicing, make the leakage current checks to prevent the customer from being exposed to shock hazards.

## Current Leakage Check

1. Assemble the measuring instrument as shown in Fig.1. Be sure to use the voltmeter equipped with performance described in Table 1.

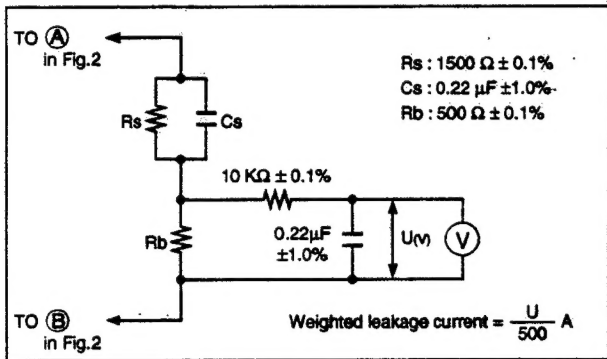


Fig. 1

Table 1

	Performance
Voltmeter (True r.m.s. reading)	Uncertainty: $\leq 2\%$ Input resistance: $\geq 1M\Omega$ Input capacitance: $\leq 200pF$ Frequency range: 15Hz to 1MHz

2. Assemble the circuit as shown in Fig 2. Connect AC plug to AC outlet.

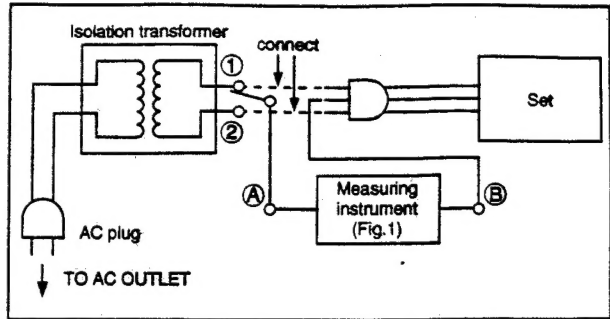


Fig. 2

3. Connect (A) to (1) according to Fig.2 and measure voltage.
4. Disconnect (A) from (1) to (2). Measure voltage again.
5. Both of the values of voltage obtained from the measurement in step3 and step4 should not be 3.75V nor exceed 3.75V.  
That is to say, both of the values calculated from the formula shown in Fig.1 should not be 0.75mA nor exceed 0.75mA.  
In case a measurement is outside of the limits specified, there is a possibility of shock hazard, and the LCD Projector should be repaired and rechecked before it is returned to the customer.

## UV-PRECAUTION AND HIGH PRESSURE LAMP PRECAUTION

1. Be sure to disconnect the AC Plug when replacing the lamp.
2. Since the lamp reaches a very high temperature during its operation, wait until it has completely cooled off when replacing the Lamp Unit.
3. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
4. The high pressure lamp involves a risk of explosion. Therefore, do not touch the Lamp Filament when servicing.(See Fig. 3)

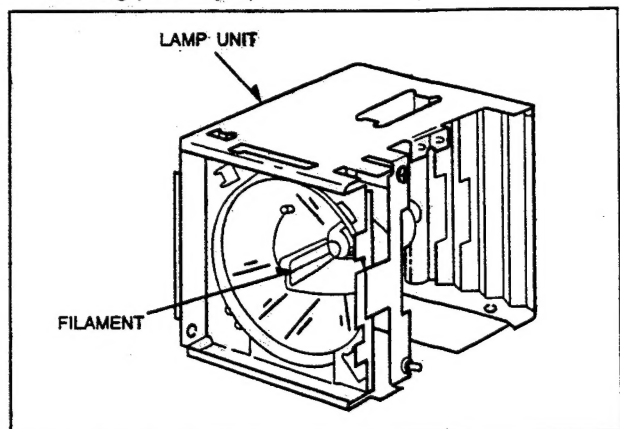


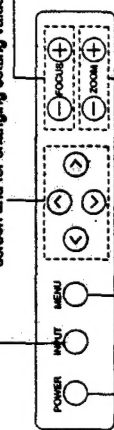
Fig. 3

## Location and function of each part

### Projector

#### <Top and front>

**INPUT select button**  
This button is used to select the input signal source.



**POWER button**  
This button is used to turn projection of the picture on and off.

**FOCUS adjustment +/- buttons**  
These buttons are used to adjust the picture focus.

**ZOOM adjustment +/- buttons**  
These buttons are used to adjust the picture size.

**MENU button**  
This button is used to turn display of the menu screen on and off and to return display to the previous screen.

**Built-in speakers**  
These are built-in speakers which are capable of outputting stereo sound.

**Carrying handle**  
Pull out the handle and hold it when transporting the projector.

**LENS SHIFT dial**  
Turning this dial moves the lens up and down. Use it to make line adjustments to the lens position when setting up the projector.

**Remote control signal receptor**  
This receives the infrared signal transmissions from the remote control unit.

**Focus ring**  
This ring is used to adjust the image focus.

**Air outlet port**

**Projection lens**  
This lens enlarges the image and projects it onto the screen.

**Lens cap**

**TEMP Indicator**  
This indicator illuminates or flashes as a warning if the temperature inside the projector reaches an abnormal level.

**LAMP Indicator**  
This indicator illuminates when the useful life of the lamp is coming to an end, and it flashes when there is a problem with the lamp unit.

**Power indicator (STAND BY (VON (G))**  
This indicator illuminates red when the projector is in standby mode, green when the projector is on, and orange when in standby mode and the cooling fan is operating.

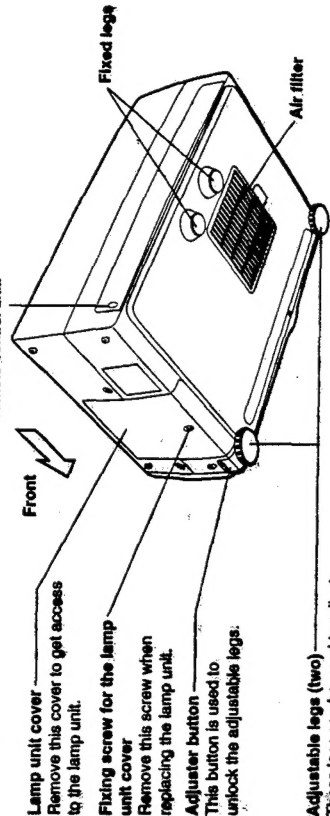
**MAIN POWER switch**  
This switch turns the power supply to the projector on and off.

**Fuse holder**

**Power input socket (AC IN)**  
The power cord which is supplied with the projector is connected here.

#### <Back, bottom and right view>

**Remote control signal receptor**  
This receives the infrared signal transmissions from the remote control unit.



**Lamp unit cover**  
Remove this cover to get access to the lamp unit.

**Fixing screw for the lamp unit cover**  
Remove this screw when replacing the lamp unit.

**Adjuster button**  
This button is used to unlock the adjustable legs.

**Adjustable legs (two)**  
These legs can be used to adjust the angle of inclination of the projector.

**<Side terminal board>**

**AUDIO OUT terminal**  
This terminal is used to output audio signals which are input from the AUDIO IN terminal for RGB input or the AUDIO IN (L-R) terminals for S-VIDEO/VIDEO input. The sound output is automatically switched when the audio input source is switched.

**RGB OUT terminal**  
This terminal is used to output the RGB signal which is connected to the RGB 1 or RGB 2 input connector.

**RGB 2 (RGB IN/AUDIO IN) connector/terminal**  
This connector and terminal are used to input RGB signals and the audio signal which accompany them.

**RGB 1 (RGB IN/AUDIO IN) connector/terminal**  
This connector and terminal are used to input RGB signals and the audio signal which accompany them.

**S-VIDEO IN terminal**  
This terminal is used to input S-VIDEO signals.

**VIDEO IN terminal**  
This terminal is used to input composite video signals.

**AUDIO IN (L-R) terminals for S-VIDEO/VIDEO input**  
These terminals are used to input audio signals which correspond to the signals input to the VIDEO IN or S-VIDEO IN terminal.

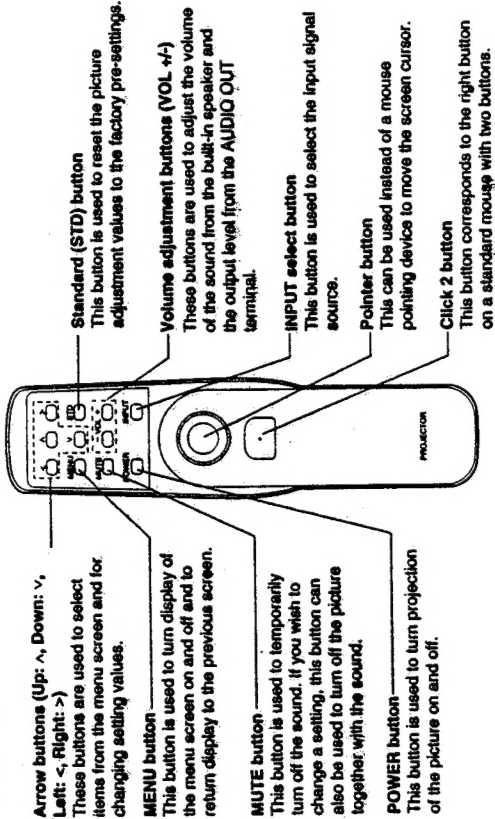
**SERIAL connector**  
This connector is used to connect a personal computer to the projector in order to externally control the projector.

**MOUSE connector**  
This connector is used to connect an accessory or separate mouse cable. This lets you operate a personal computer using the pointer button and click buttons on the remote control unit instead of using a mouse.

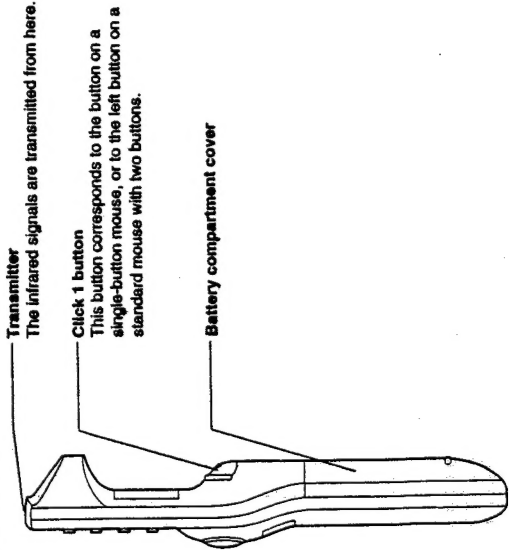
Location and function of each part

Remote control unit

<Front view>



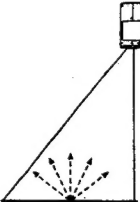
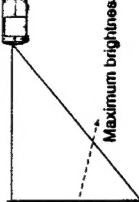
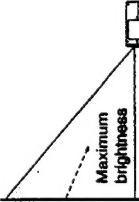
<Side view>



Screen requirements

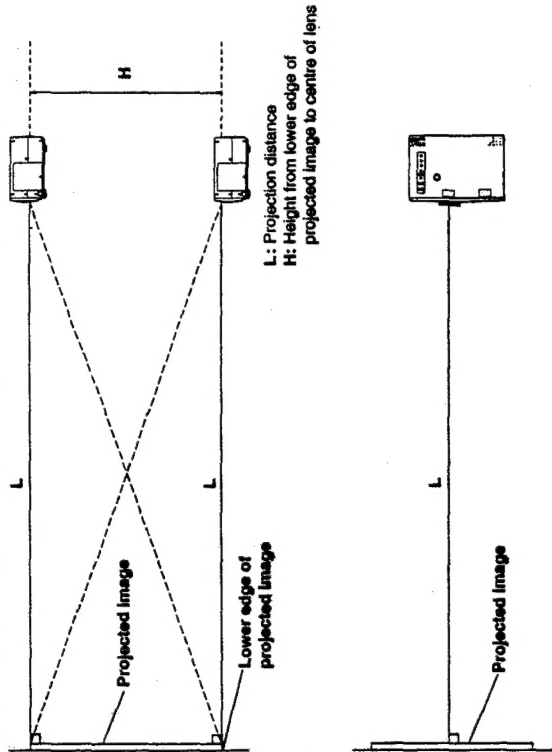
This projector is used to project the image onto flat screens. However, the brightness and viewable range will vary depending on which type of screen is used. When selecting a screen, check the characteristics of the screen to ensure that it is suitable for the intended place of use.

Screen characteristics (reference)

Screen type	Screen characteristics
White screen	<p>This type of screen can be seen from anywhere, so there are no limits on the viewing position. However, the surrounding walls should be darkened as in a movie theater, otherwise a clear picture cannot be obtained.</p> 
Silver screen	<p>This type of screen gives a picture which is 2-4 times brighter than a white screen. A variety of types are available from different manufacturers, and each type has different brightness characteristics. Some also have restrictions on the possible range of viewing positions.</p> <ul style="list-style-type: none"><li>* Care should be taken with screens that have a high gain, as these types of screen can cause colour distortion at the left and right edges.</li><li>* This type of screen is recommended when the projector is suspended from the ceiling.</li></ul> <p>This type of screen is similar to the silver screen, except that no colour distortion occurs at the left and right edges. Moreover, most of the light is reflected at the same angle as the angle of incidence.</p> <ul style="list-style-type: none"><li>* This type of screen is recommended when the projector is placed on the floor.</li></ul> 
Beaded screen	 <p>This type of screen is made of PVC (polyvinyl chloride). It has the same characteristics as silver screens, but sometimes it can have hot spots.</p> <p>This type of screen is made of acrylic plastic. It is extremely durable and has excellent optical characteristics. It performs in the same way as silver screens.</p>
Reflective screens	
Translucent screens	
Flexible translucent screen	
Rigid-type translucent screen	

# Standard setting-up positions

After determining the appropriate position for the projector by referring to the illustrations and standard setting-up dimensions given below, set up the projector. The distance L from the projector to the screen and the height H do not vary, regardless of whether the projector is being used in the floor, ceiling, front or rear positions.



## Standard setting-up dimensions

Because the projector uses a X 1.5 electronic zoom lens, it is possible to adjust the projection distance. And because there is also a function provided for adjusting the height of the lens, the height of the projector can also be adjusted relative to the position of the screen.

Projection size (diagonal)	Projection distance (L)		Height from lower edge of projected image to centre of lens (H)	
	Minimum	Maximum	Height from upper edge of projected image to centre of lens (H)	
0.762 m (30")	1.0 m (3'3")	1.5 m (4'11")	0-0.45 m (0-18")	0-0.45 m (0-18")
1.016 m (40")	1.4 m (4'7")	2.0 m (6'6")	0-0.60 m (0-24")	0-0.60 m (0-24")
1.524 m (60")	2.1 m (6'10")	3.1 m (10'2")	0-0.91 m (0-36")	0-0.91 m (0-36")
2.032 m (80")	2.8 m (9'2")	4.2 m (13'9")	0-1.21 m (0-48")	0-1.21 m (0-48")
2.540 m (100")	3.6 m (11'9")	5.3 m (17'4")	0-1.52 m (0-60")	0-1.52 m (0-60")
3.810 m (150")	5.4 m (17'8")	8.0 m (26'2")	0-2.28 m (0-90")	0-2.28 m (0-90")
5.080 m (200")	7.2 m (23'7")	10.7 m (35'1")	0-3.04 m (0-120")	0-3.04 m (0-120")
6.350 m (250")	9.0 m (29'6")	13.4 m (43'11")	0-3.81 m (0-150")	0-3.81 m (0-150")
7.620 m (300")	10.8 m (35'5")	16.2 m (53'1")	0-4.57 m (0-180")	0-4.57 m (0-180")

### NOTE:

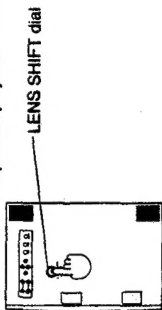
- In addition, if the projector is not completely vertical with respect to the screen and horizontal with respect to the floor, distortion of the projected image will result. Adjust the projector horizon by the procedure given on page 7.
- The values in the table shown above are approximate.

## Adjusting the position of the projected picture

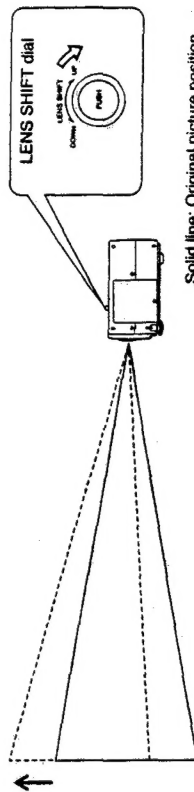
The vertical position of the projected picture can be adjusted by changing the height of the projection lens using the LENS SHIFT dial which is on top of the projector.

After determining the projection distance and the setting-up position, adjust the vertical position of the projected picture by carrying out the following procedure.

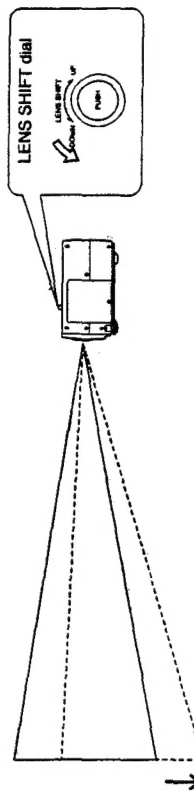
Press the LENS SHIFT dial on top of the projector. ....The dial will pop up and it will be possible to turn it to make adjustments.



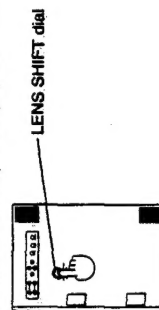
If the LENS SHIFT dial is turned clockwise, the position of the projected image will be raised.



If the LENS SHIFT dial is turned counterclockwise, the position of the projected image will be lowered.



Press the LENS SHIFT dial on top of the projector. ....The dial will pop back in again and adjustment will no longer be possible.



### NOTE:

- The height of the projection lens can be adjusted within a range of  $\pm 10.1$  mm ( $\pm 3/16$  inch). However, the adjustment range for the position of the projected picture will vary depending on the size of the projected picture.



### □ Setting the projector up horizontally

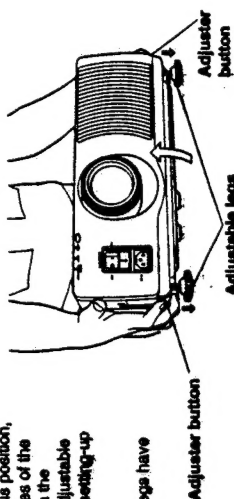
If the projector is not set up so that it is horizontal, it will not be possible to obtain a distortion-free picture. If placing the projector on top of a table or similar surface, carry out the following procedure to ensure that no distortion of the picture occurs.

#### Adjustment procedure

1. Lift the front of the projector until the projector as a whole is horizontal. While holding it in this position, press the adjuster buttons under the sides of the projector (1 each at left and right). When the buttons are pressed, the left and right adjustable legs will drop down until they reach the setting-up surface.

#### NOTE:

- Do not release the buttons until both legs have reached the setting-up surface.

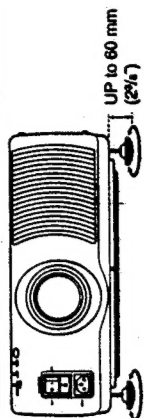


2. Release the adjuster buttons. (The adjustable legs will lock as soon as the buttons are released.)

3. Turn the adjustable legs by hand in either direction to make fine adjustments to the level of the projector so that the projector is perfectly horizontal.

#### NOTE:

- The legs can be extended by up to 60 mm (2 3/8"). If you try to extend them any further than this, they will merely spin freely.

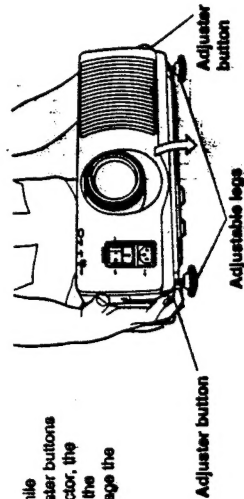


### <Retracting the adjustable legs>

After lifting the front of the projector slightly, press and hold the adjuster buttons and then gently lower the projector.

#### NOTE:

- Be sure to support the projector firmly while pressing the adjuster buttons. If the adjuster buttons are pressed without supporting the projector, the adjustable legs will suddenly unlock and the projector will fall down, which could damage the projector.



## Adjusting the lens

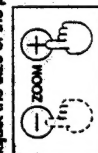
The projector is equipped with electronic zoom and electronic focusing mechanisms, so that you can carry out adjustments simply by pressing the ZOOM (+/-) buttons and the FOCUS (+/-) buttons on the top of the projector, or by following the on-screen adjustment display. Alternatively, you can adjust the focus by turning the lens directly.

#### NOTE:

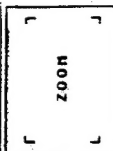
- If these buttons are pressed while the on-screen display for some other function is on the screen, the buttons pressed will operate but the on-screen display will not switch to the ZOOM or FOCUS adjustment screen. Thus there may be cases where the operation and the display do not match.

#### Adjustment procedure <for direct adjustment>

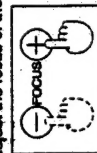
1. Press the ZOOM (+/-) buttons on the operation panel on the top of the projector to adjust the size of the picture.



If the "+" button is pressed, the picture becomes larger, and if the "-" button is pressed, the picture becomes smaller.



2. Press the FOCUS (+/-) buttons on the operation panel on the top of the projector to adjust the focus of the picture.



Adjust so that the image projected onto the screen is at the optimum focus.



#### NOTE:

- If approximately five seconds pass without any buttons being pressed, the adjustment screen will be cleared.

#### Adjustment procedure <adjusting using the on-screen adjustment display>

1. Press the MENU button to display the MENU screen.

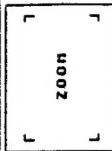
2. Press the "+" and "-" buttons to select "ZOOM".



3. Press the "+" and "-" buttons to display the ZOOM adjustment screen.

4. Press the "+" and "-" buttons to adjust the picture size.

If the "+" button is pressed, the picture will become larger, and if the "-" button is pressed, the picture will become smaller.



5. Press the MENU button, or wait for approximately five seconds without pressing any button. The display will then return to the MENU screen.

6. Press the "+" and "-" buttons to select "FOCUS".



7. Press the "+" and "-" buttons to display the FOCUS adjustment screen.

8. Press the "+" and "-" buttons to adjust the picture focus.

Adjust so that the image projected onto the screen is at the optimum focus.



#### NOTE:

- If approximately five seconds pass without any buttons being pressed, the display will return to the MENU screen.
- The projector is equipped with a lens retracting function which will cause the lens to be retracted automatically when the power is turned off. However, the lens will not then return to the previously adjusted position even if the power is turned back on again. If you do not wish this function to operate, turn the function setting off while referring to "Using the lens retracting function" on page 14.



## Setting-up positions and changing the projection method

The projection method used by the projector can be changed in accordance with the setting-up position. At the time of shipment from the factory, the projector is set to the "FRONT" projection method, but this can be changed if required.

### Setting procedure

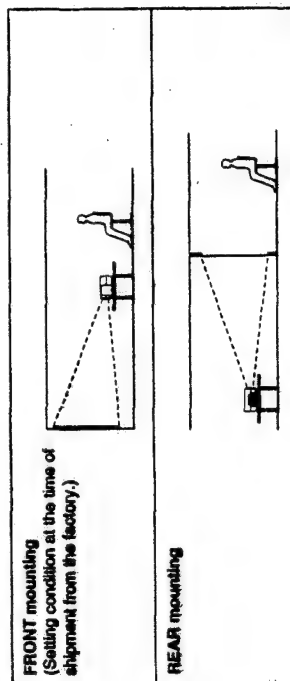
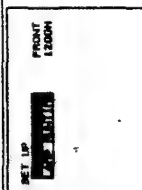
1. Press the MENU button to display the MENU screen.
2. Press the "▲" and "▼" buttons to select "OPTION".



3. Press the "←" and "→" buttons to display the OPTION screen.
4. Press the "▲" and "▼" buttons to select "SET UP".



5. Press the "←" and "→" buttons to display the SET UP screen.
6. Press the "▲" and "▼" buttons to select "FRONT/REAR".
7. Press the "←" and "→" buttons to select "FRONT" or "REAR".



### NOTE:

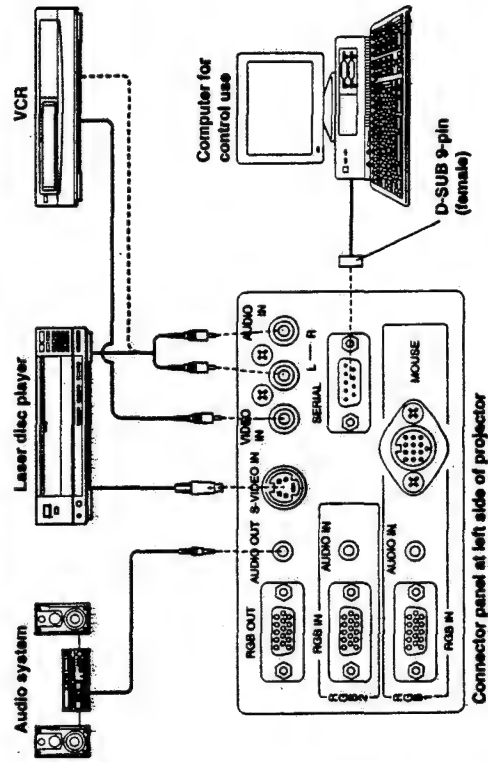
- The adjustment screen and the MENU screen can both be cleared by pressing the MENU button.

## System configuration example

### Notes on system configuration

- Turn off the power supply of each system component before connecting any of the components.
- Read the instruction manual for each system component before connecting it.
- If the necessary cables for connecting any system components are not supplied with the component or available as an option, you may need to fashion a cable to suit the component concerned.
- If there is a lot of jitter in the video signal input from the video source, the picture on the screen may flicker. In such cases, it will be necessary to connect a TBC (time base corrector).
- The projector can be connected to video signal sources which output VIDEO, S-VIDEO and analog RGB signals (0.6-8.0 Vp-p synchronized signals).
- The projector has built-in speakers. However, you will need to connect a separate audio system to the AUDIO OUT terminal if your needs specify high sound volumes. No sound will come out of the projector's built-in speaker while the AUDIO OUT terminal is being used.
- It may not be possible to connect some types of computer.

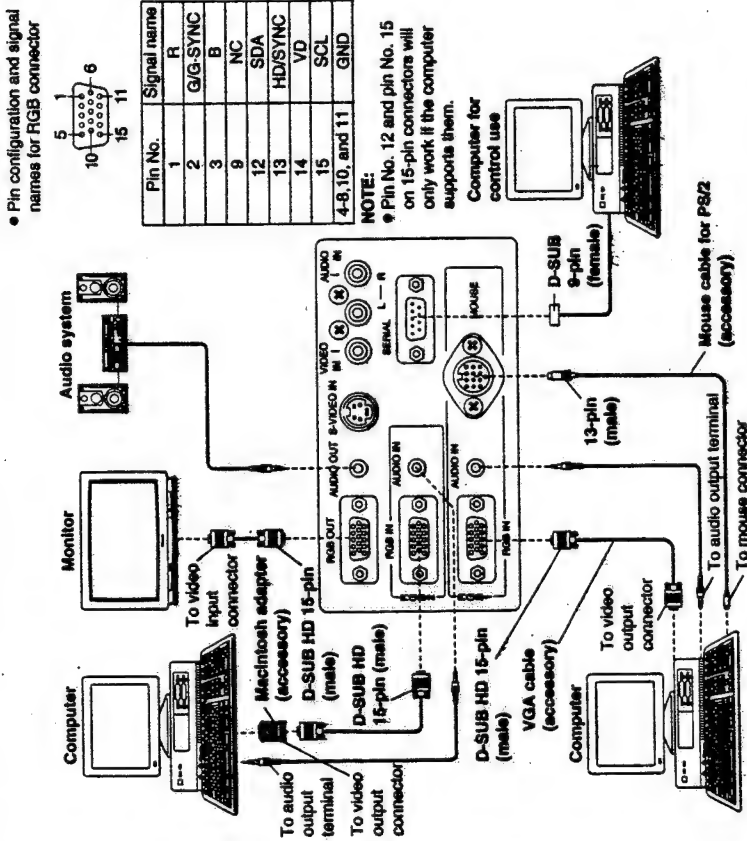
### Example of connection to audio-visual equipment



### NOTE:

- If the S-VIDEO IN and VIDEO IN terminals are both connected at the same time, the S-VIDEO IN signal input will have priority. If you wish to view the signal being input to the VIDEO IN terminal, disconnect the plug from the S-VIDEO IN terminal.
- Only one audio signal input system is available for the AUDIO IN (L-R) terminals for S-VIDEO/VIDEO signals, so if you wish to change the audio input source, you will need to remove and insert the appropriate plugs.
- If the video signal source is connected using a cable with a BNC junction plug, use the BNC/RCA adapter to convert the pin jack.
- If an audio system is connected to the AUDIO OUT terminal, the sound volume balance and muting can be controlled by the remote control unit which is supplied with the projector. However, if the volume is set to "0", no audio signal will be output from the AUDIO OUT terminal.

Example of connection to a computer



NOTE:

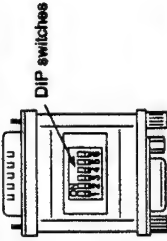
- If the mouse connector on the projector is connected to the mouse connector on the computer with the accessory or separate mouse cable, you can then use the remote control unit in place of the computer's mouse. However, this function operates only when input to the RGB 1 connector has been selected.
- If you wish to use the infrared mouse function, turn on the main power to the projector before turning on the personal computer.
- If using a personal computer with a suspend/resume function, the infrared mouse function may not operate until the computer is restarted.
- The signal which is connected to the RGB IN connector for RGB 1 or RGB 2 will be output from the RGB OUT terminal. However, no signal is output from the RGB OUT terminal if the input signal is switched so that RGB 1 and RGB 2 are no longer selected, or if the projector power is turned off.

About the Macintosh adapter

An adapter for use with Macintosh computers is included with this unit. If image signals are to be input to this unit from a Macintosh computer, connect this adapter to the accessory VGA cable at the end which is to be connected to the computer. The resolution of the video signals output from the Macintosh computer can be switched by changing the adapter DIP switch settings.

Set the DIP switches to match the desired resolution according to the table given below.

Display mode name/No. of dots	S1	S2	S3	S4	S5	S6
MAC 13 / 840 x 480	ON	OFF	OFF	OFF	ON	ON
MAC 16 / 832 x 624	OFF	ON	OFF	OFF	ON	ON
MAC 19 / 1024 x 768	OFF	OFF	ON	OFF	ON	ON



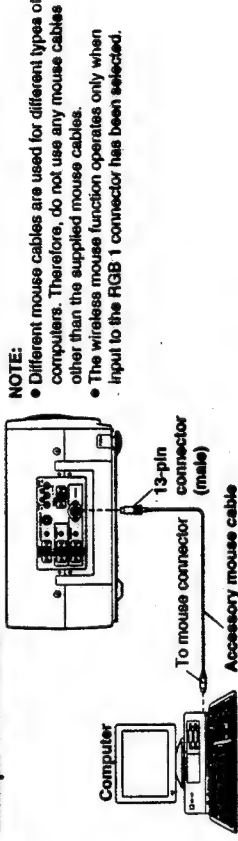
Wireless mouse

A wireless mouse function is provided. This function lets you use the remote control unit to control a personal computer in place of the personal computer's mouse. This is done by connecting the projector to a personal computer using the mouse cable (2.0 m (6'7")) which is supplied with the projector.

This projector is compatible with the following types of mouse only. Other types of mouse cannot be used.

- PS/2 mouse
- Macintosh mouse
- Serial mouse

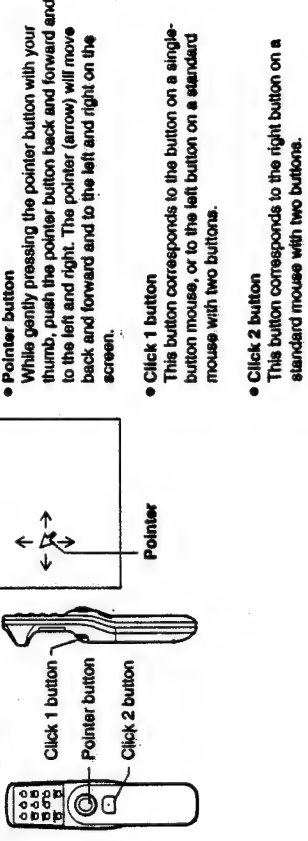
Example of connection



NOTE:

- Different mouse cables are used for different types of computers. Therefore, do not use any mouse cables other than the supplied mouse cables.
- The wireless mouse function operates only when input to the RGB 1 connector has been selected.

Operation



- **Pointer button**  
While gently pressing the pointer button with your thumb, push the pointer button back and forward and to the left and right. The pointer (arrow) will move back and forward and to the left and right on the screen.
- **Click 1 button**  
This button corresponds to the button on a single-button mouse, or to the left button on a standard mouse with two buttons.
- **Click 2 button**  
This button corresponds to the right button on a standard mouse with two buttons.

## Control commands

The commands which the personal computer can use to control the projector are shown in the following table.



- Use a proper communication cable which is suitable for the personal computer to connect the serial connector and the personal computer.

**AMI**

Pin No.	Signal name	Contents
①		NC
②	RXD	Received data
③	TXD	Transmitted data
④		NC
⑤	GND	GND
⑥		NC
⑦	RTS	Connected Internally
⑧	CTS	
⑨		NC

- 10 -

### At the computer (DTE specifications)

1	NC	NC	1
2			2
3			3
4	NC	NC	4
5			5
6	NC	NC	6
7			7
8			8
9	NC	NC	9

丁

parameters for that command (if any), and the packet then ends with ETX. Add parameters when necessary according to the control contents.



When sending multiple commands, check that a response has been received from the projector for one command before sending the next command.

If an incorrect command is sent from the personal computer, the "ER401" command will be sent from the projector to the personal computer.

## Using the serial connector

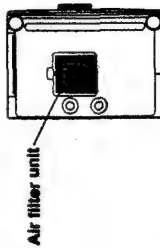
## Cleaning the air filter

If the air filter becomes clogged with dust, the internal temperature of the projector will rise, the TEMP indicator will flash and the projector will be switched automatically to standby mode.

### Cleaning procedure

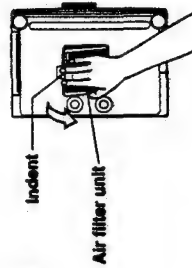
1. Turn off the main power supply and disconnect the power cord plug from the wall outlet.  
Turn off the main power supply according to the procedure given in "Turning the power on and off" on page 11 before disconnecting the plug from the wall outlet.

2. Gently turn the projector upside down.  
Place the projector on top of a blanket so that it will not become scratched.

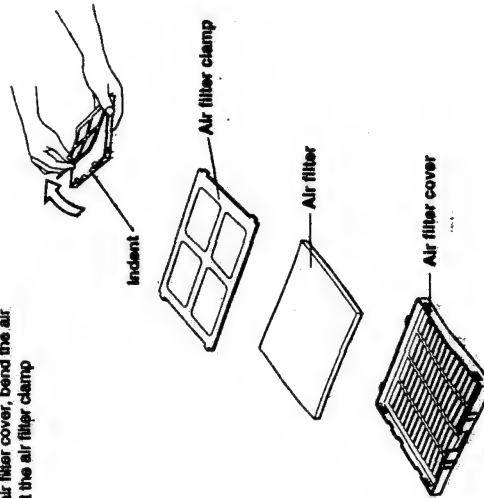


Air filter unit

3. Remove the air filter cover.  
Hold the indents on the air filter cover with your hands and pull the air filter unit out of the projector.

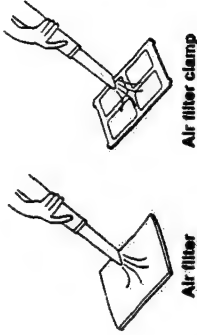


4. Remove the air filter clamp and then take out the air filter.  
Insert your finger into the indent in the air filter cover, bend the air filter clamp slightly forwards, and then lift the air filter clamp upwards to remove it.

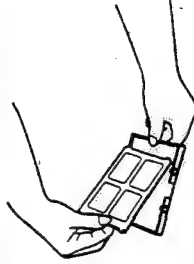


5. Clean the air filter and the air filter clamps.

Use a vacuum cleaner to clean off any accumulated dust.



6. Install the air filter and the air filter clamp to the air filter cover.  
Place the air filter inside the air filter cover, and then insert the air filter clamp into its original position as shown in the illustration.

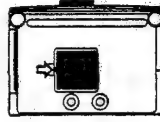


7. Install the air filter cover.

Slide the air filter cover into the projector until the hollows in the air filter cover are aligned with the hollows in the projector.

### NOTE:

- Be sure to install the air filter cover before using the projector.
- If the projector is used without the air filter cover installed, dust and other foreign particles will be drawn into the projector, and malfunctions will result.



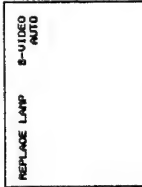
### NOTE:

- If the dust cannot be removed by cleaning, it is time to replace the air filter. Please consult your dealer.

## Lamp unit replacement period

The lamp used as the light source must be replaced after approximately 1,800 hours of use. If the lamp is not replaced after the cumulative usage time has passed 2,000 hours, the projector will automatically switch to standby mode.

- Screen display once cumulative usage time exceeds 1,800 hours if you continue to use the lamp unit after 1,800 hours of total usage time have passed, the on-screen display shown at right will appear as a reminder each time the projector is turned on. This display will continue to appear until a button is pressed.



## Replacing the lamp unit

### Notes on replacing the lamp unit

- Because the lamp unit in this projector incorporates a metal halide lamp, the temperature inside the lamp rises during use and the lamp becomes very hot. After turning off the MAIN POWER switch and disconnecting the power cord from the wall socket, wait for the lamp to cool down before replacing the lamp unit.
- Take extreme care when handling the removed lamp unit, as it contains gas under high pressure and can easily become damaged if it is struck against hard objects or dropped.
- The old lamp unit may shatter if it is handled roughly after removal.
- Ask an authorized waste disposal agency to dispose of the old lamp unit.
- A Phillips screwdriver is necessary for removing the lamp unit. Make sure that your hands are not slippery when using the screwdriver.

### NOTE:

- The projector is not supplied with a replacement lamp unit. Please ask your dealer for details.  
Lamp unit product no.: 1RLU820

CAUTION: Do not use any lamp unit other than the one with the product number indicated above.

## Replacement procedure

### NOTE:

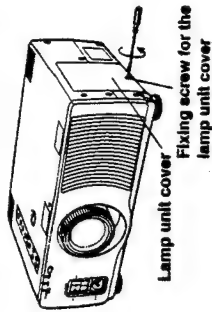
- If the lamp unit is replaced after it has been used for more than 2,000 hours, the projector will switch to standby mode after approximately 10 minutes of operation. Steps 7. to 11. on the following page should thus be completed within 10 minutes.

1. Disconnect the power cord plug from the wall outlet and check that the area around the lamp unit has cooled down.

2. Use a Phillips screwdriver to remove the screw which is securing the lamp unit cover at the right side of the projector, and then remove the lamp unit cover.

### NOTE:

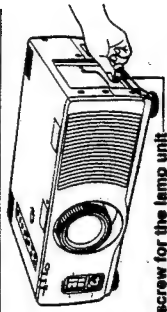
- Read the CAUTION on the lamp unit cover before continuing.



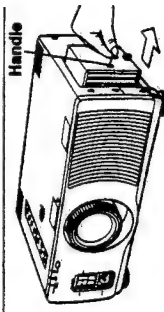
3. Turn the fixing screw for the lamp unit by hand until it turns freely.

### CAUTION:

- The lamp unit will be hot after it has been used, and you might receive burns if you touch it while it is still hot.



4. Hold the handle which is attached to the lamp unit and gently pull the lamp unit out from the projector.



5. Insert the new lamp unit, while making sure that the direction of insertion is correct, and then turn the fixing screw for the lamp unit by hand until it is securely tightened.

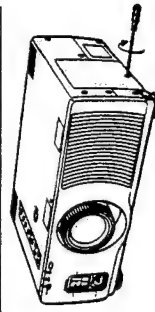
### NOTE:

- Insert the lamp unit so that the fixing screw for the lamp unit is facing downwards.

6. Securely install the lamp unit cover, and then use a Phillips screwdriver to securely tighten the fixing screw for the lamp unit cover.

### NOTE:

- Be sure to install the lamp unit and the lamp unit cover securely. If they are not securely installed, it may cause the protection circuit to operate so that the power cannot be turned on.



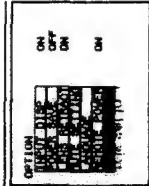
7. Insert the power cord plug into the wall outlet and then press the MAIN POWER switch on the front of the projector to turn on the power.  
NOTE:  
• If the power does not turn on when the MAIN POWER switch is pressed, turn the MAIN POWER switch off again and check that the lamp unit and the lamp unit cover are securely installed. Then turn the MAIN POWER switch back on.

8. Press the POWER button on the projector or remote control unit so that a picture is projected onto the screen.

9. (1) Press the MENU button to display the MENU screen.  
(2) Press the "X" and "Y" buttons to select "OPTION".



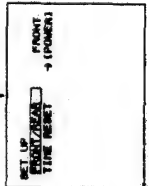
10. (1) Press the "X" and "Y" buttons to display the OPTION screen.  
(2) Press the "X" and "Y" buttons to select "SET UP".



11. (1) Press the "X" and "Y" buttons to display the SET UP screen.  
(2) Press the "X" and "Y" buttons to select "LAMP RUNTIME".



• The cumulative usage time of the current lamp unit will be displayed on the screen.  
(3) Press the "X" button on the projector control panel continuously for three seconds or more. (The "LAMP RUNTIME" display will change to "TIME RESET".)  
NOTE:  
• The "X" button on the remote control unit cannot be used at this time.  
(4) While the SET UP screen (the screen showing "TIME RESET") is being displayed, turn off the power. This will reset the cumulative usage time for the lamp unit.  
NOTE:  
• If any other buttons are pressed while "TIME RESET" is being displayed, the display will return to "LAMP RUNTIME" and the button pressed will take effect.



## Using other useful functions

### □ Changing the on-screen display language to another language

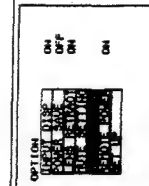
At the time of shipment, the language for on-screen displays is set to English. However, you can change it to some other language by the following procedure.

Setting procedure <For changing the language to German (DEUTSCH)>

1. Press the MENU button to display the MENU screen.
2. Press the "X" and "Y" buttons to select "OPTION".



3. Press the "X" and "Y" buttons to display the OPTION screen.
4. Press the "X" and "Y" buttons to select "LANGUAGE".



5. Press the "X" and "Y" buttons to display the LANGUAGE screen.

6. Press the "X" and "Y" buttons to select "DEUTSCH".  
• The setting changes each time the cursor is moved.  
• The languages that can be selected include English (ENGLISH), German (DEUTSCH), French (FRANÇAIS), Spanish (ESPAÑOL) and Japanese (日本語).  
NOTE:  
• Press the MENU button to clear the setting screen and the MENU screen.



### □ Using the countdown timer

The countdown timer can be used at times such as during breaks in meetings by displaying the amount of time remaining for something on the screen. The countdown time can be set to a maximum of 60 minutes, in units of one minute. The setting procedure is as follows.

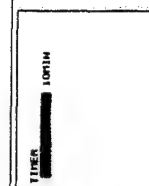
Setting procedure

1. Press the MENU button to display the MENU screen.
2. Press the "X" and "Y" buttons to select "TIMER".



3. Press the "X" and "Y" buttons to display the TIMER screen.
4. Continue pressing the "X" and "Y" buttons to set the time.  
• The setting can be made in units of one minute up to a maximum of 60 minutes.  
• This function can be disabled by setting the time to "0".

5. Press the MENU button to clear the menu screen. The countdown will then start.  
NOTE:  
• During the countdown, the screen will switch to the colour specified by the BACK COLOR setting.  
• If you would like to cancel the countdown function after it has been activated (if you would like to clear the countdown display), go back to the TIMER screen and set the time to "0" minutes, or press the MENU button.



### □ Using the power save function

In order to conserve power, the projector is equipped with a power save function which causes it to switch automatically to the standby condition if no signal is input for 10 minutes or more. At the time of shipment from the factory this function is set to "OFF". If you would like to use the function, change the setting to "ON" by the following procedure.

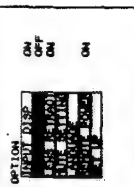
#### Setting procedure

1. Press the MENU button to display the MENU screen.
2. Press the "<" and ">" buttons to select "OPTION".



3. Press the "<" and ">" buttons to display the OPTION screen.

4. Press the "<" and ">" buttons to select "POWER SAVE".
5. Press the "<" and ">" buttons to change the setting to "ON".
  - If you change the setting to "OFF", the power save function will be disabled.



#### NOTE:

- Press the MENU button to clear the setting screen and the MENU screen.
- If both this function and the lens retracting function described below are set to "ON", the lens will be automatically retracted when the projector switches to standby mode. If this happens, you will need to readjust the zoom and focus of the lens after starting the projector again.

### □ Using the lens retracting function

This function causes the projector lens to be retracted automatically when the projector switches to standby mode, and extends the lens again when the projector starts back up again. Having this function set to "ON" is useful if the projector will not be used for an extended period of time, or when the projector is to be transported somewhere. However, once the lens has been retracted, it will be necessary to readjust the zoom and focus of the lens once the projector has been started up again. At the time of shipment from the factory this function is set to "ON".

#### Setting procedure

1. Press the MENU button to display the MENU screen.
2. Press the "<" and ">" buttons to select "OPTION".

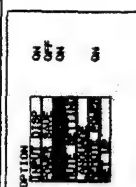


3. Press the "<" and ">" buttons to display the OPTION screen.

4. Press the "<" and ">" buttons to select "LENS RETRACT".
5. Press the "<" and ">" buttons to change the setting to "ON".
  - If you set this function to "ON", the lens will be extended and retracted each time the power is turned on and off.

#### NOTE:

- If this function is set to "OFF", the lens will remain extended at all times.
- Press the MENU button to clear the setting screen and the MENU screen.



### □ Setting the screen colour when no signal is input and during picture muting

The projector can be set to project either a solid blue image or a solid black image onto the screen if nothing is connected to the projector's input terminals, or if equipment is connected but no signal is being input from it. This setting is also effective when picture muting is active and when the countdown timer is running. At the time of shipment from the factory, the colour is set to "BLUE".

#### Setting procedure

1. Press the MENU button to display the MENU screen.
2. Press the "<" and ">" buttons to select "OPTION".



3. Press the "<" and ">" buttons to display the OPTION screen.
4. Press the "<" and ">" buttons to select "MUTE SETTING".

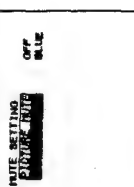


5. Press the "<" and ">" buttons to display the MUTE SETTING screen.

6. Press the "<" and ">" buttons to select "BACK COLOR".
7. Press the "<" and ">" buttons to change the setting to "BLUE" or "BLACK".
  - This will set the colour to be projected when no signal is being input.

#### NOTE:

- If a signal that the projector cannot recognise is input, the projector will consider this to be no signal.
- Press the MENU button to clear the setting screen and the MENU screen.



### □ Using the MUTE remote control unit button to turn off both sound and picture

At the time of shipment from the factory, the MUTE button on the remote control unit is set so that only the sound is muted when the button is pressed. If you would like the picture to be muted along with the sound, set the PICTURE MUTE function to "ON" by the following procedure.

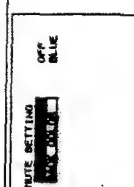
#### Setting procedure

The procedure below starts from the MUTE SETTING screen.

1. Press the "<" and ">" buttons to select "PICTURE MUTE".
2. Press the "<" and ">" buttons to change the setting to "ON".
  - If the function is set to "ON", the picture will be muted along with the sound when the MUTE button is pressed.
  - If the function is set to "OFF", only the sound will be muted when the MUTE button is pressed. (Factory pre-setting)

#### NOTE:

- Press the MENU button to clear the setting screen and the MENU screen.
- When PICTURE MUTE is on, the colour projected will be the same colour as the BACK COLOR setting.



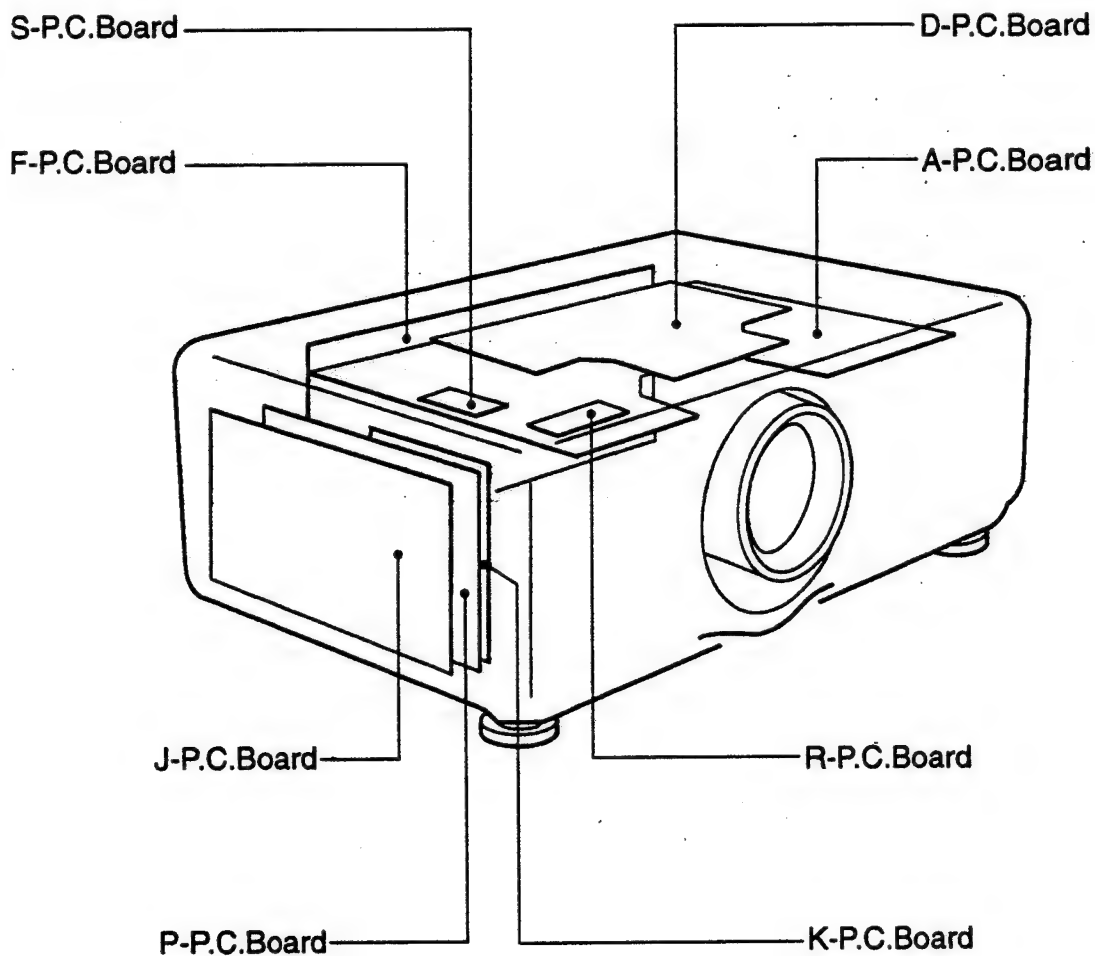


# Disassembly Instructions

## WARNING:

1. Before disassembly, remove the AC plug from the wall outlet.
2. When turning over a P.C. board to adjust it, be sure to lay on insulating material under it in order to prevent shoring.
3. P.C. boards and wires should not be pulled forcibly, but be handled carefully.
4. Printed boards and connector should be handled with care-avoid handling them forcibly!
5. When handling the P-P.C. board and K-P.C. board with the power ON, there is a risk of an Electric shock if you use the COLD side heat sink while working on the HOT side of the chassis.

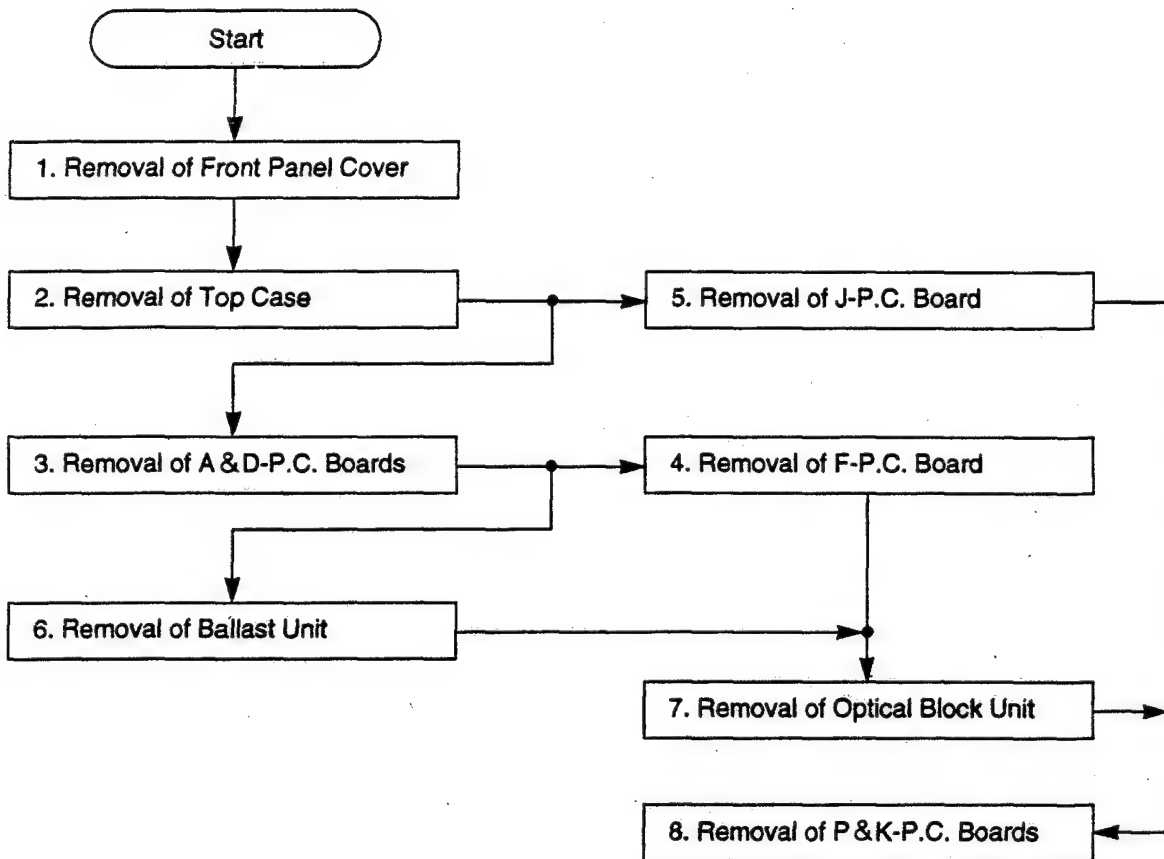
## CIRCUIT BOARD LAYOUT





## DISASSEMBLY FLOWCHART

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing. When reassembling, perform the steps in the reverse order.



### 1. Removal of Front Panel Cover

1. Remove 3 screws (A), and carefully pull out the Front Panel Cover toward you.

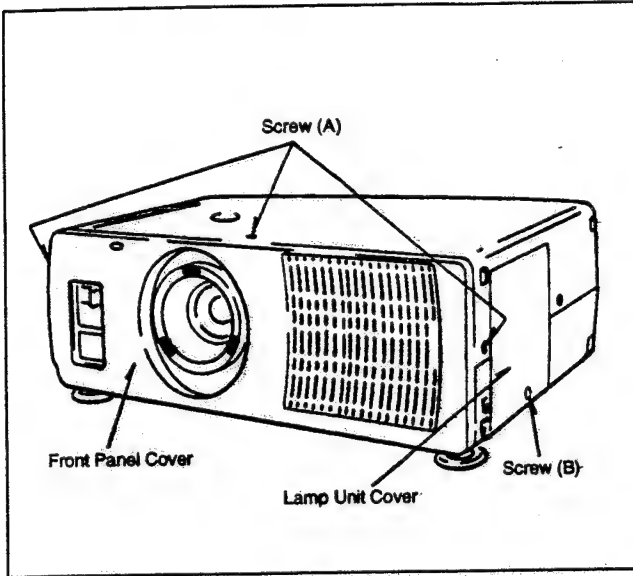


Fig. 1

### 2. Remove of Top Case

1. Remove the Front Panel Cover.
2. Loosen a screw (B), and remove the Lamp Unit Cover.
3. Remove 3 screws (C) and 2 screws (D), then disconnect 2 connector (A15 and A 21) on the A-P.C. Board.
4. Remove the Top Case.

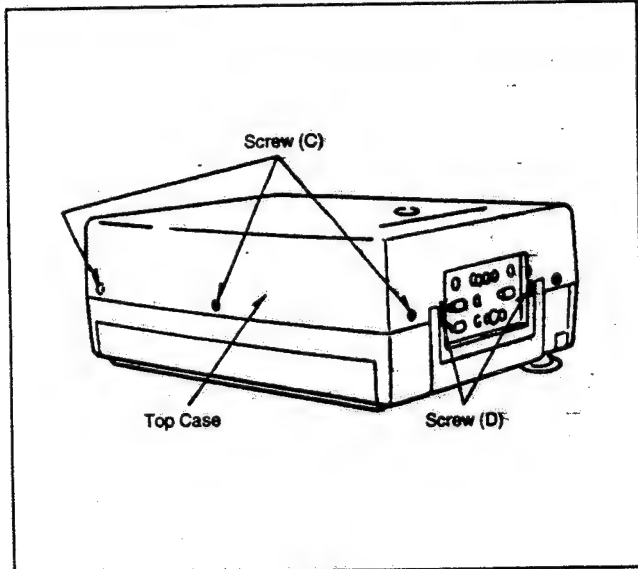


Fig. 2

### NOTE:

- (1) Install the Lamp Unit Cover when starting the projector.
- (2) The projector starts with the S-P.C. Board removed, but be sure to connect a connector (A15) when checking Speaker and Operation Panel.

### 3. Removal of A-P.C. Board and D-P.C. Board

1. Remove a screws (E), then remove soldering (F) on two places.
2. Remove the shield cover.
3. Disconnect each connector, remove the D-P.C. Board.

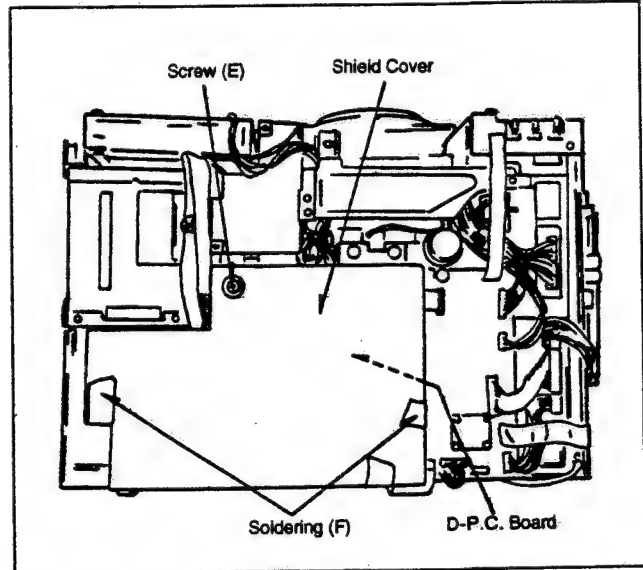


Fig. 3

4. Remove 5 screws (G).

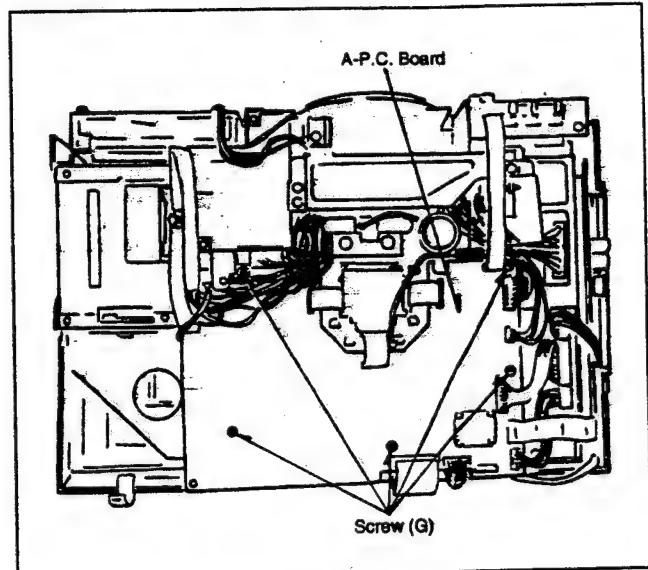


Fig. 4

5. Disconnect each connector, remove the A-P.C. Board.

#### 4. Removal of F-P.C. Board

1. Remove a screw (H).
2. Disconnect each connector, remove the F-P.C. Board.

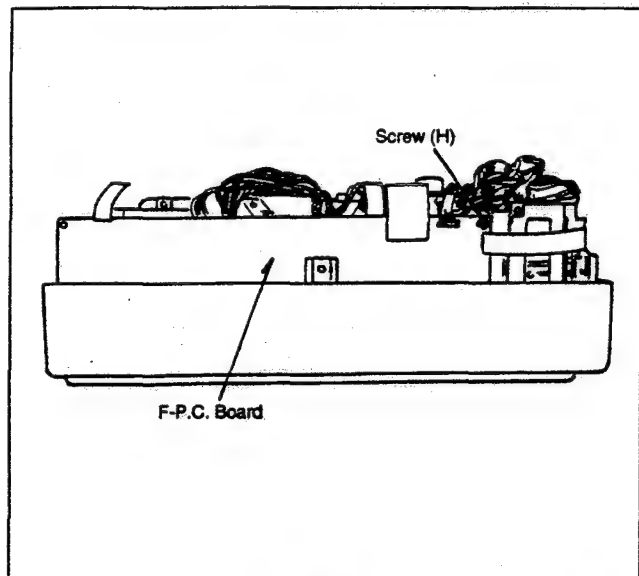


Fig. 5

#### Note:

Insert the F-P.C. Board into the slot of the Bottom Case to secure the board.

#### 5. Removal of J-P.C. Board

1. Remove 2 screws (I).
2. Disconnect each connector, remove the J-P.C. Board.

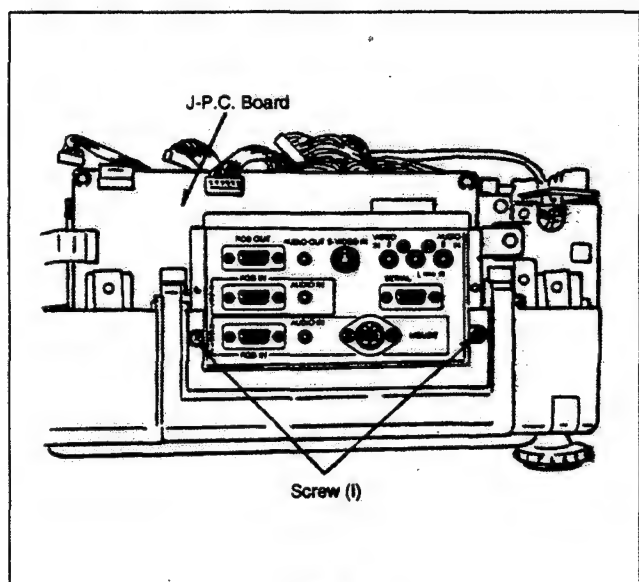


Fig. 6

#### 6. Removal of Ballast Unit

1. Remove 4 screws (J), and remove the earth joint Angleiron.
2. Remove 2 screws (K), and remove the cooling duct.
3. Disconnect 2 connector on the Bimetal.

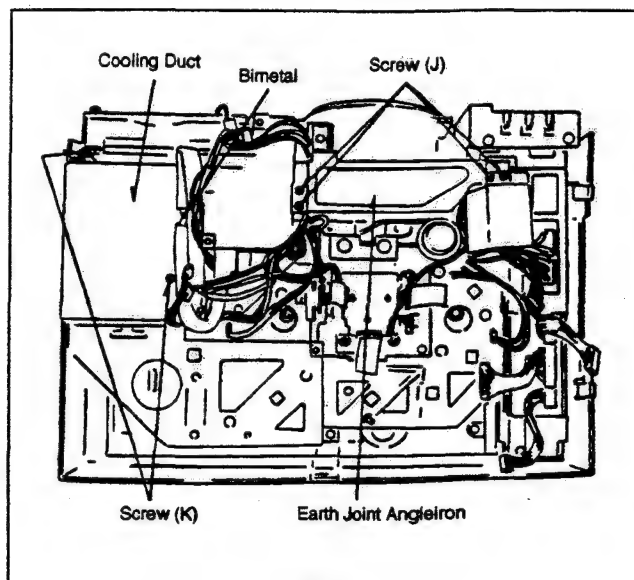


Fig. 7

4. Remove 2 screws (L), and remove the lamp socket.
5. Remove 3 screws (M).
6. Disconnect each connector on the Ballast Unit, and carefully pull out the Ballast Unit toward upper.

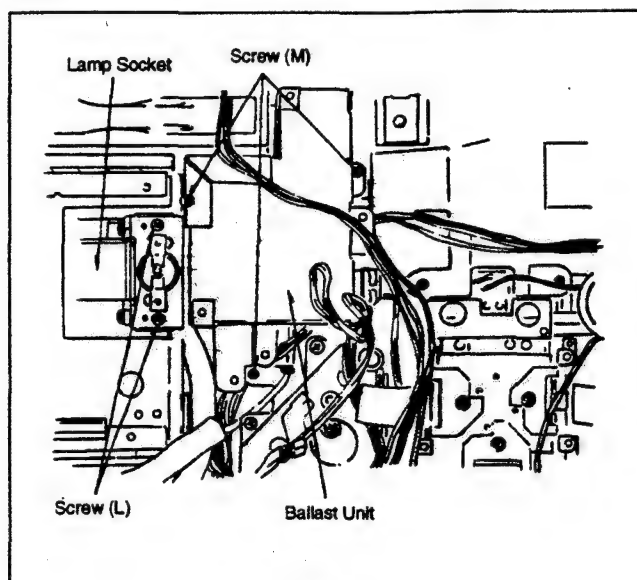


Fig. 8

### 7. Remove of Optical Block Unit

1. Remove 4 screws (N), and remove the lamp box unit with the lamp fan.
2. Remove 4 screws (O) and 2 screws (P), and carefully pull out the Optical Block Unit.

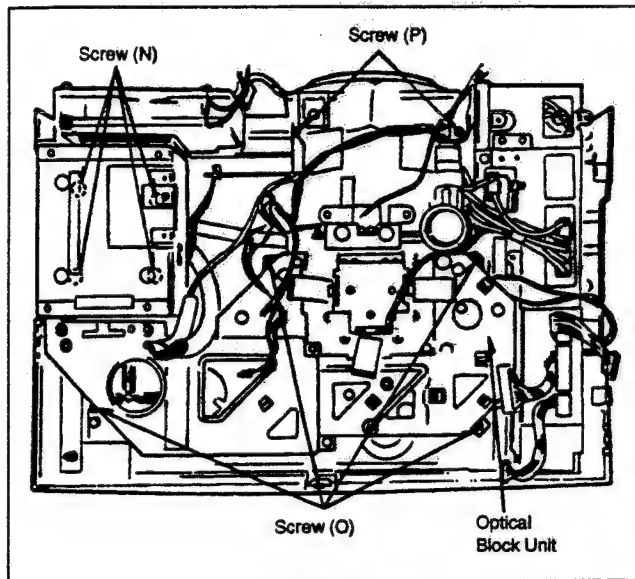


Fig. 9

### 8. Removal of P-P.C. Board and K-P.C. Board

1. Remove 4 screws (Q).
2. Disconnect each connector, and remove the power supply unit.

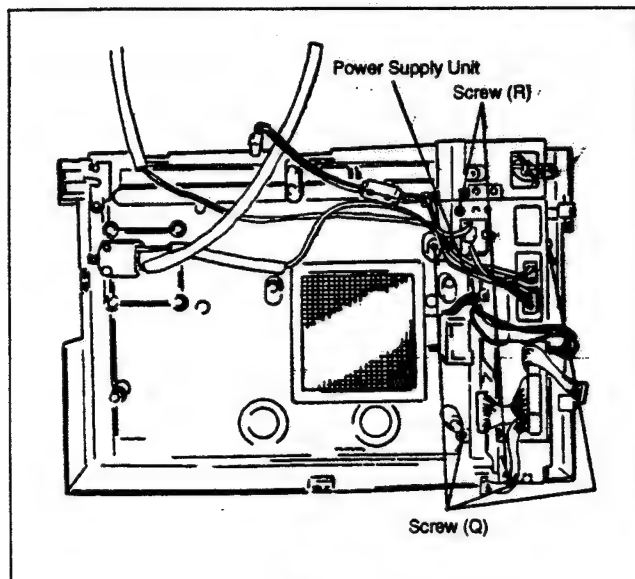


Fig. 10

3. Remove 2 screws (R), and disconnect a connector (K2) on the K-P.C. Board.
4. Remove 4 screws (S), and remove the K-P.C. Board.

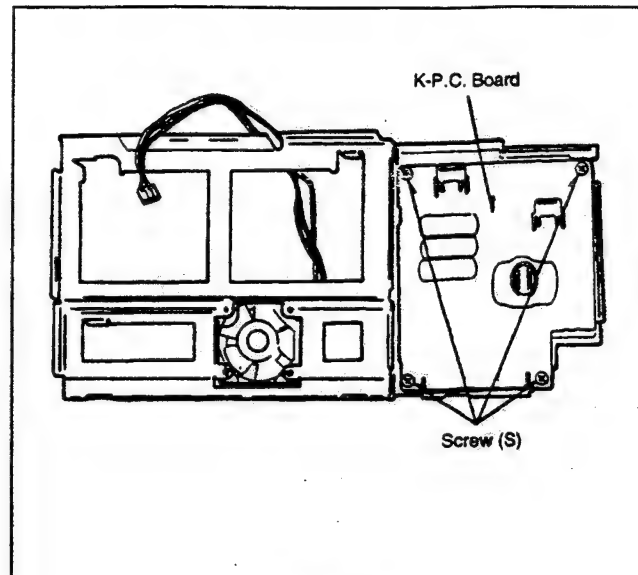


Fig. 11

5. Remove 2 screws (T) and 3 spacer (U).
6. Disconnect each connector, and remove the P-P.C. Board.

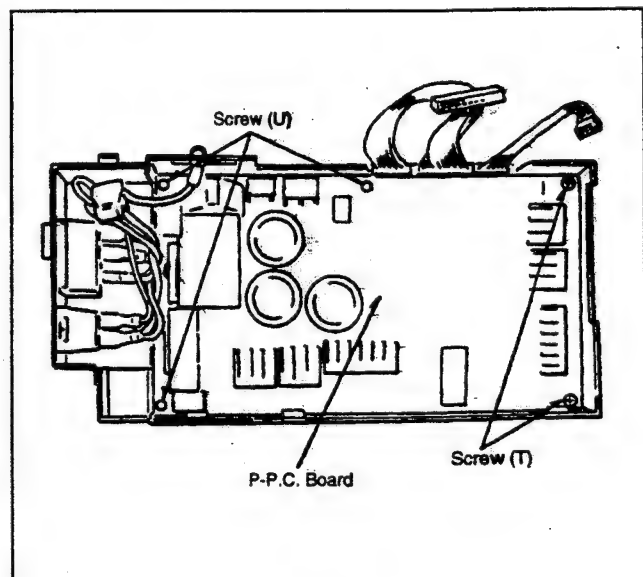


Fig. 12

### ■ Disassembly of Ballast Unit

1. Remove 2 screws (a), and remove the Ballast unit case cover.

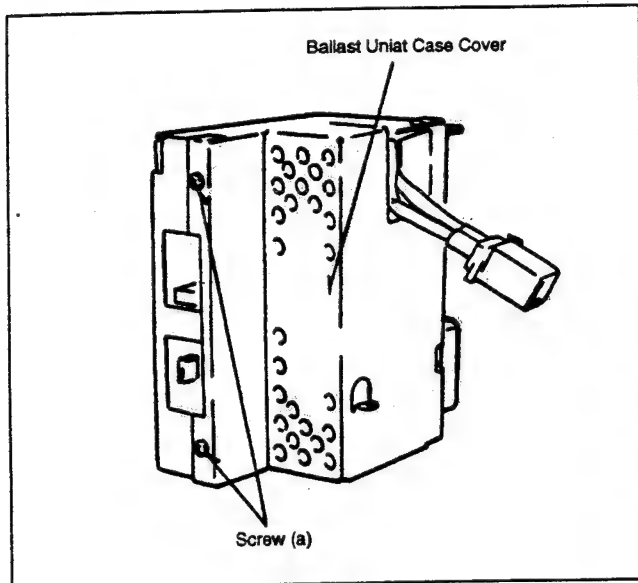


Fig. 13

2. Remove a screw (b).
3. Cut off 3 spacers (c) from back of this unit case, and remove the Ballast Board.

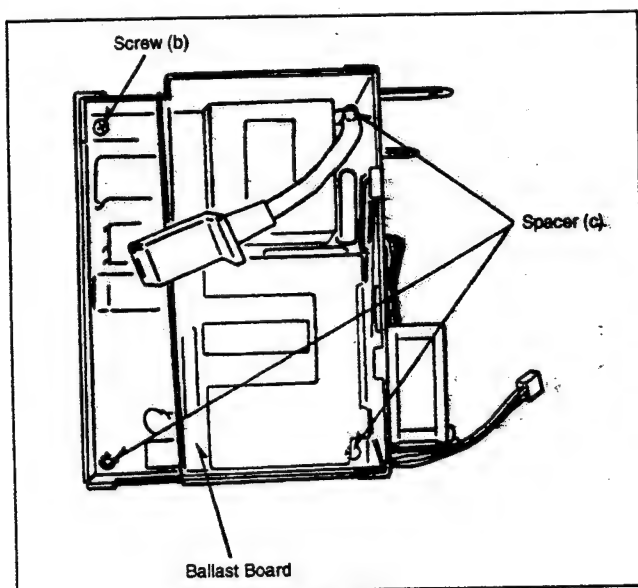


Fig. 14

### ■ Disassembly of Optical Block Unit

1. Remove 4 screws (d), and remove the Lens Dust Cover.

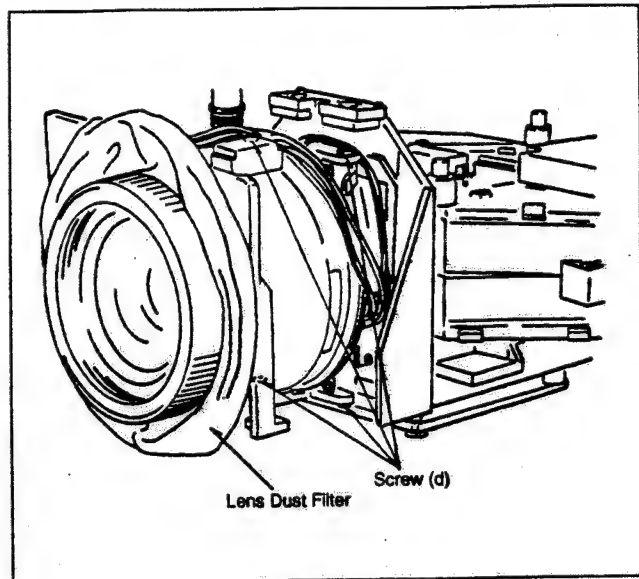


Fig. 15

2. Remove 4 Hexagon screw (e), and remove the Lens Unit.

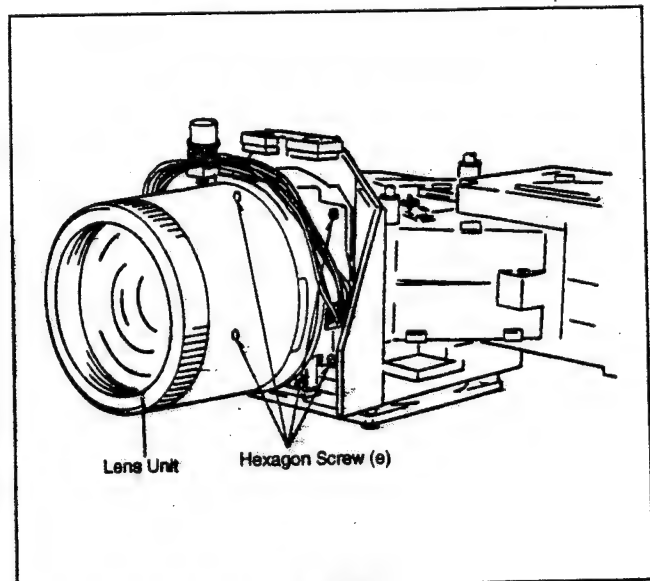


Fig. 16

## ■ Removal of LCD Unit

- Remove 3 screws (f), and remove LCD Unit (RED).
- Remove 3 screws (g), and remove LCD Unit (GREEN).
- Remove 3 screws (h), and remove LCD Unit (BLUE).

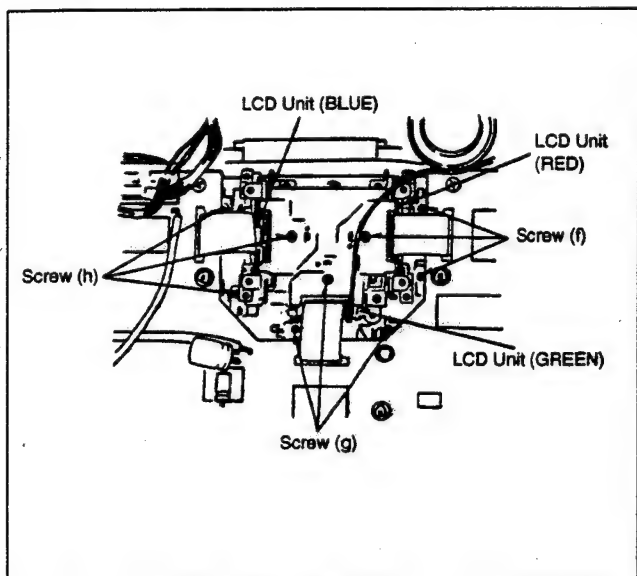


Fig. 17

### ATTENTION:

ADJUSTMENT PROCEDURE should be performed after exchanging the LCD Unit (LCD PANEL).

## ■ Extension cables

- Use the extension cable when each P.C. Board is checked because there is insufficient space to troubleshoot the board.
- Necessary extension cables are as following table.

Ref. No.	Kind of extension cables	Part No.	Kit No.
(A)	5 Pin	TXJA08VHF6	TZCK3NVHF6
(B)	12 Pin	TXJA10VHF6	
(C)	6 Pin	TXJJ01VHF6	
(D)	2 Pin	TXJP01VHF6	
(E)	P2: 5 Pin / B1: 4 Pin	TXJB01VHF6	
(F)	3 Pin	TXJB02VHF6	

- Connect each P.C. Board by extension cables as shown.

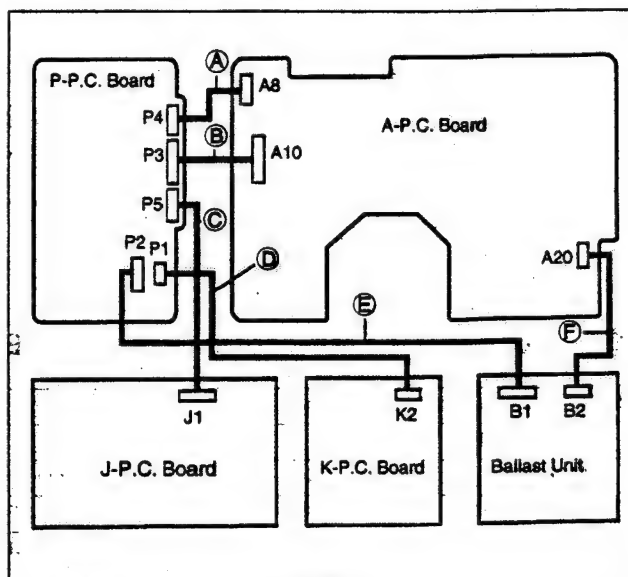
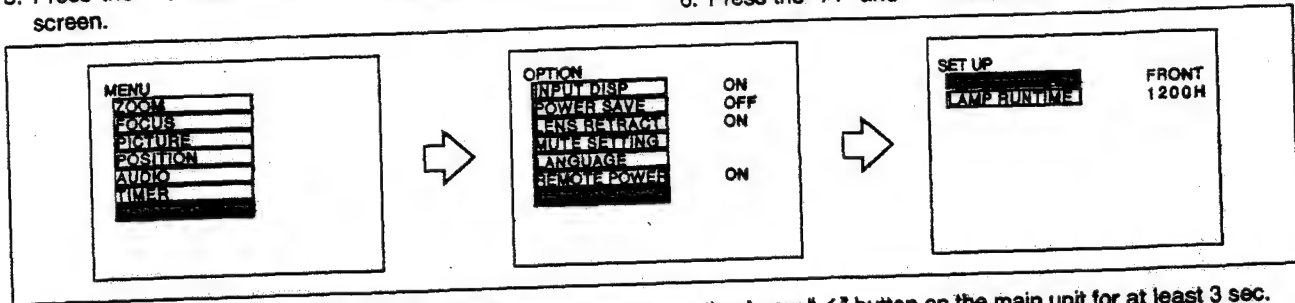


Fig. 18

# SELF-DIAGNOSIS FUNCTION

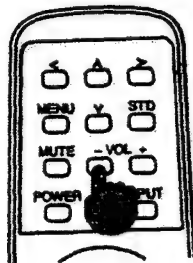
## ■ Switching Procedure to the Self-Diagnosis Mode

1. Press the MENU button to display the MENU screen.
2. Press the "▲" and "▼" buttons to select "OPTION".
3. Press the "<" and ">" buttons to display the OPTION screen.
4. Press the "▲" and "▼" buttons to select "SET UP".
5. Press the "<" and ">" buttons to display the SET UP screen.
6. Press the "▲" and "▼" button to select "FRONT/REAR".

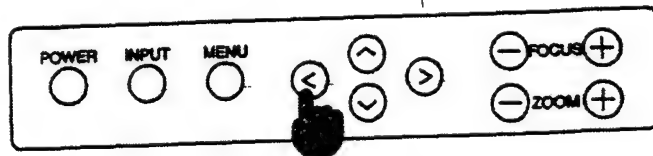


7. Keep the "VOL-" button of the remote control pressed and press the Arrow "<" button on the main unit for at least 3 sec.

Remote Control Unit



Projector control panel



## ■ Self-Diagnosis (Self-check) Screen and Error Locations

Self-Diagnosis (Self-check) Screen			
SELF CHECK			
LAMP TIME	000H	Total On Time for Optical Lamp.	Check I <sup>2</sup> C Bus Communication (A-P.C. Board)
IC1	OK	Video Processor IC (IC1009)	
IC2	OK	E <sup>2</sup> PROM (IC7001)	
IC3	OK	DAC1 (IC7010)	
IC4	OK	DAC2 (IC7011)	
IC5	OK	DAC3 (IC7015)	Reason Lamp Does Not Turn On
IC6	OK	DAC4 (IC7016)	
LAMP	OK	Optical Lamp Error	
TEMP	OK	Temperature Error	
1800H	OK	Excess Cumulative On Time for Optical Lamp	A-P.C. Board
FAN	OK	Cooling Fan Stopped (one of the Three fans)	
SUM	OK	Program Error in Microcomputer (IC7000)	

## ■ Results of Self-Check

- When the unit enters Self-Check the above screen appears, allowing the user to identify the location of the error.

[OK] ..... Normal,    [-] ..... Error

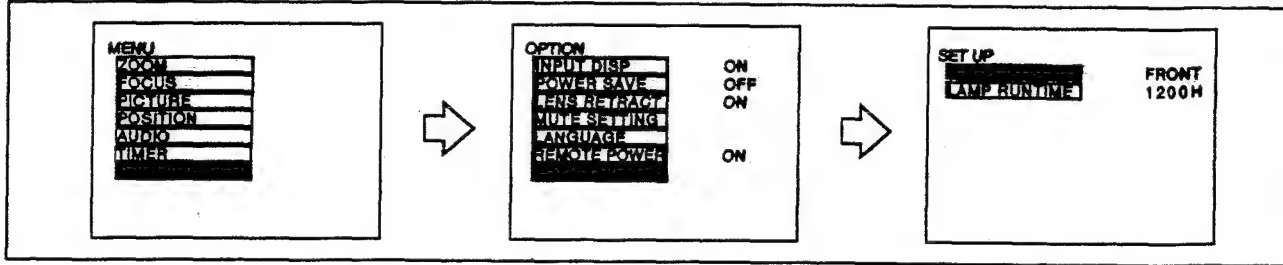
## ■ Canceling

- The Self-Check screen can be canceled by pressing the "MENU" button on the main unit or the remote control unit.

## Service Mode Functions

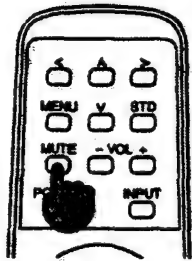
### ■ Procedure to enter Service Mode

1. Press the MENU button to display the MENU screen.
2. Press the "▲" and "▼" buttons to select "OPTION".
3. Press the "<" and ">" buttons to display the OPTION screen.
4. Press the "▲" and "▼" buttons to select "SET UP".
5. Press the "<" and ">" buttons to display the SET UP screen.
6. Press the "▲" and "▼" button to select "FRONT/REAR".



7. Keep the "MUTE" button of the remote control pressed and press the Arrow "<" button on the main unit for at least 3 sec.

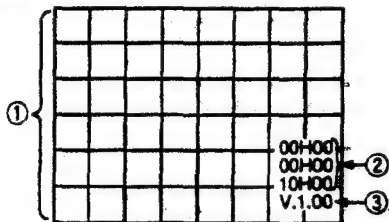
### Remote Control Unit



### Projector control panel



### ■ Service Mode Image



- ① **Crosshatch Pattern Display**  
The crosshatch pattern display is used for the convergence adjustment. The color changes (into 7 colors) with each press of the "<" button on the main body's control panel.
- ② **Display of Lighting Time of Replaced Lamps**  
Displays the cumulative hours of replaced lamps in the past.
- ③ **Microcomputer Version Display**  
Displays the version number of the microcomputer used for this machine.

### ■ Canceling

- Service Mode functions can be canceled by pressing the "MENU" button on the main unit.

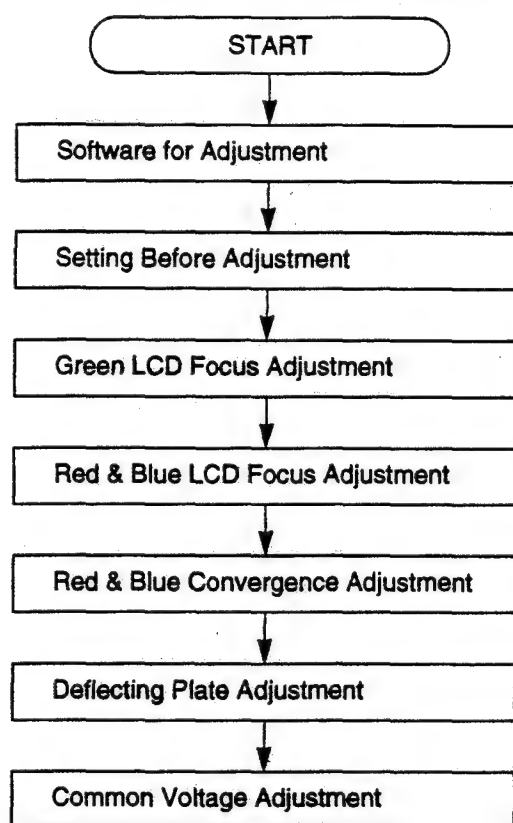


# Measurements and Adjustments

## Contents

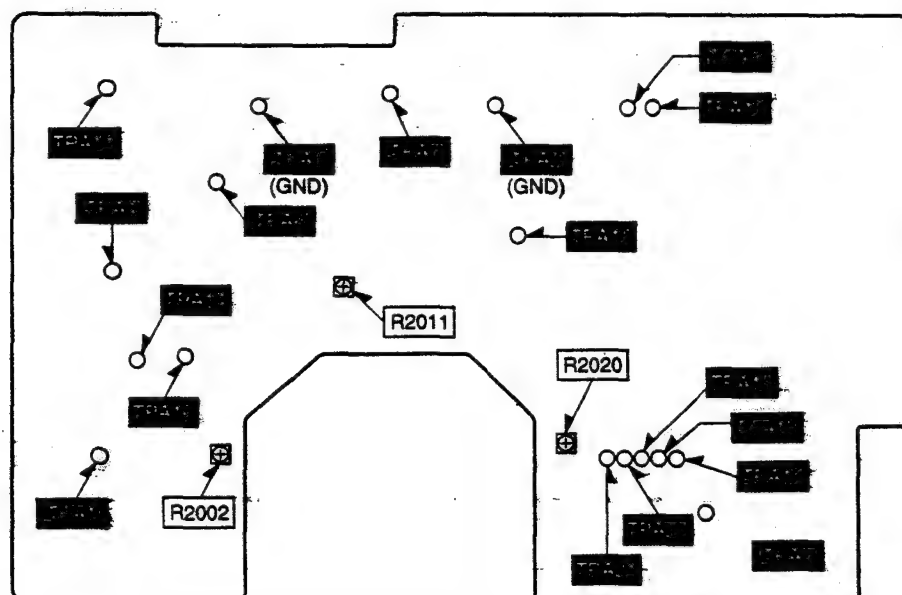
	Page
ADJUSTMENT PROCEDURE FLOWCHART .....	25
LOCATION OF TEST POINTS AND CONTROLS .....	25
CAUTION FOR SERVICING .....	26
■ Cautions for Servicing .....	26
■ Lamp Unit .....	26
ADJUSTMENT PROCEDURE .....	26
■ Software for Adjustment .....	26
■ Setting Before Adjustment .....	27
■ Green LCD Focus Adjustment .....	27
■ Red & Blue LCD Focus Adjustment .....	27
■ Red & Blue Convergence Adjustment .....	28
■ Deflecting Plate Adjustment .....	29
■ Common Voltage Adjustment .....	29
CHECKING POINT PROCEDURE .....	31

## ADJUSTMENT PROCEDURE FLOWCHART



## LOCATION OF TEST POINTS and CONTROLS

### A-P.C. Board (Component Side)



# CAUTION FOR SERVICING

## ■ Cautions for Servicing

- Do not turn off the Main Power Switch until the fan has completely stopped.
  - To maintain and insure safety, always use designated components for replacement parts. Further, if you have removed any clamps, leads or connectors, always place them back in their proper locations.
- Be careful not to damage the leads or parts when using a soldering iron or similar tool.

## ■ Lamp Unit

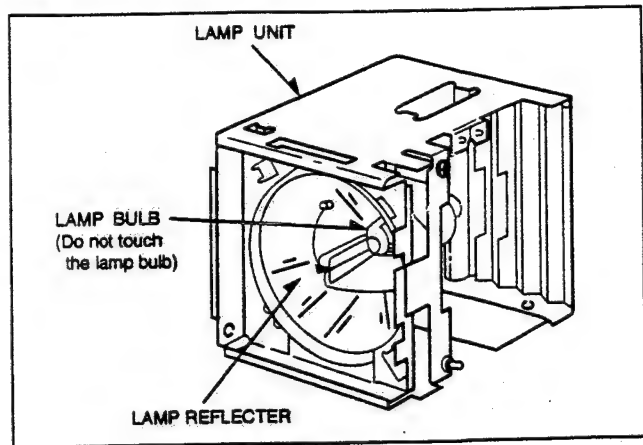


Fig. 1

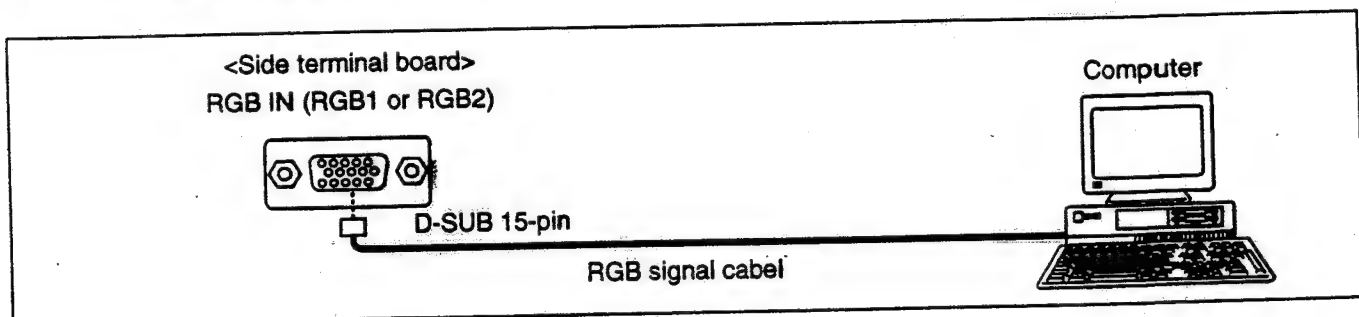
- Do not use too much force on the Lamp Reflector or the Lamp Bulb, or subject them to unnecessary shocks, since they are both made of glass.  
Be particularly careful when handling the Lamp Bulb as the area around the attachment section is easily broke.
- Do not touch the Lamp Bulb, since any scratches or soiling on the bulb may cause the Lamp Bulb to break when it turns on.
- If the Lamp Reflector is Soiled.  
Clean by wiping the surface gently with a soft and dry cloth.
- Always wear protective goggles when looking at the light from the Lamp Unit.

## ADJUSTMENT PROCEDURE

### ■ Software for Adjustment

- Computer-aided adjustment should be made to this projector.  
Call Customer Service Department for details of the adjusting software when ADJUSTMENT PROCEDURE becomes necessary.
- Read instructions of the manual attached to the software and install it only as directed.

- Start ADJUSTMENT PROCEDURE after connecting an RGB signal cable between computer and projector as shown in the following figure. (Do not make a connection when adjusting polarizing plate.)



## ■ Settings Before Adjustment

1. Press the ZOOM (+) buttons on the operation panel on the top of the projector to adjust the largest size of the picture.
2. Locate the projector at a place so that 1 meter projection distance will be maintained.
3. Turn the focus ring leftward fully when viewed from the front side of the projector, and ensure that 30" -wide projected image is obtained.

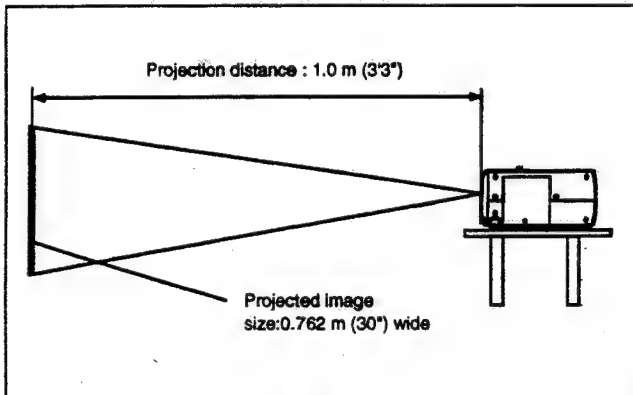


Fig. 2

## ■ Green LCD Focus Adjustment

### 1. EQUIPMENT TO BE USED

Computer ( adjusting software preinstalled computer)

### 2. INITIAL CONDITION

PICTURE SIZE.....0.762 m (30") wide

### 3. ADJUSTMENT

1. Input Green Single dot pattern image into RGB IN (RGB1 or RGB2) by running the adjusting software.
2. Adjust the Focus ring so that the entire image on the screen is displayed in balance.
3. Loosen 3 screws (B).
4. Handle the LCD Unit (Green) to obtain correct focus of the screen both vertically and laterally.
5. Tighten 3 screws (B).

**ATTENTION:** Never handle the focus ring after completion of the Green LCD Focus Adjustment till when any other adjusting operation is finished.

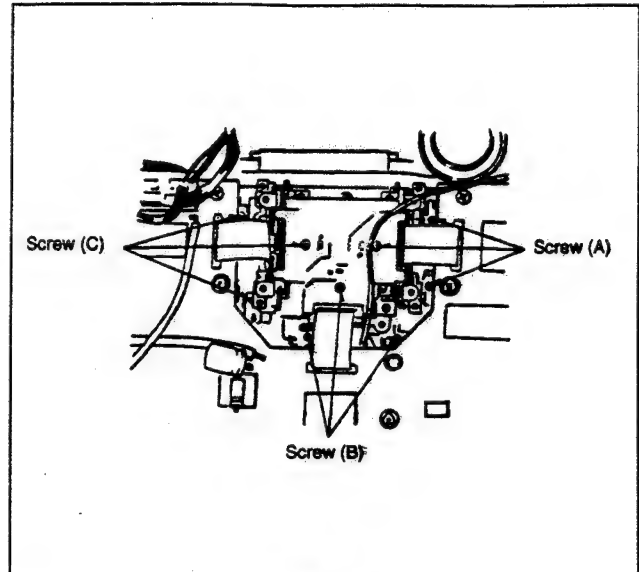


Fig. 3

## ■ Red & Blue LCD Focus Adjustment

### 1. EQUIPMENT TO BE USED

Computer (adjusting software preinstalled computer)

### 2. INITIAL CONDITION

PICTURE SIZE.....30" wide

### 3. ADJUSTMENT

1. This adjustment should be made after performing Green LCD Focus Adjustment.

#### <Red LCD Focus Adj.>

2. Input Red Single dot pattern image into RGB IN (RGB1 or RGB2) by running the adjusting software.
3. Loosen 3 screws (A). (See Fig. 3)
4. Handle the LCD Unit (Red) to obtain correct focus of the screen both vertically and laterally.
5. Tighten 3 screws (A).
6. Always perform the Red & Blue Convergence Adjustment.

#### <Blue LCD Focus Adj.>

7. Input Blue Single dot pattern image into RGB IN (RGB1 or RGB2) by running the adjusting software.
8. Loosen 3 screws (C). (See Fig. 3)
9. Handle the LCD Unit (Blue) to obtain correct focus of the screen both vertically and laterally.
10. Tighten 3 screws (C).
11. Always perform the Red & Blue Convergence Adjustment.

## ■ Red & Blue Convergence Adjustment

### 1. EQUIPMENT TO BE USED

- Computer (adjusting software preinstalled computer)
- Hexagonal screw driver(1.3 mm)

### 2. INITIAL CONDITION

PICTURE SIZE.....0.762 m (30") wide

### 3. ADJUSTMENT

1. This adjustment should be made after performing both the Green LCD Focus Adjustment and the Red & Blue LCD Focus Adjustment, in order to bring the Red & Blue images into convergence, based on the standard for the Green image.

#### <Red Convergence Adj.>

2. Input Red & Green crosshatch pattern image into RGB IN (RGB1 or RGB2) by running the adjusting software.
3. Turn 3 hexagonal adjusting screws (Rc1, Rc2 and Rc3) for the Red & Green crosshatch pattern image to obtain correct position by referring Table 1.

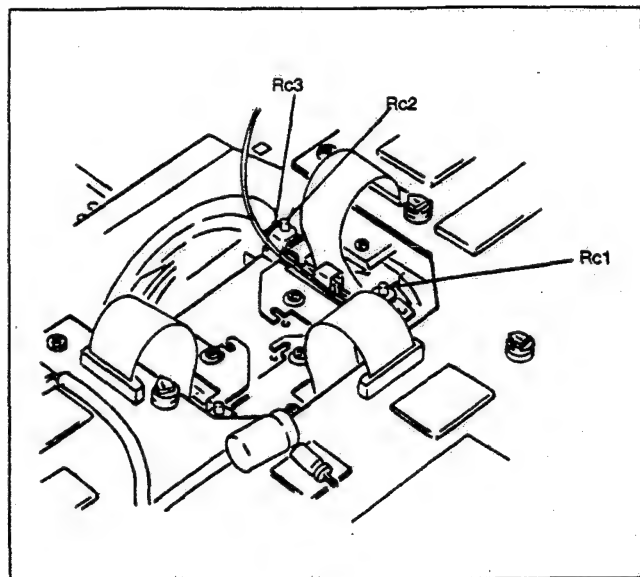


Fig. 4

Hexagonal Adjusting Screw	Rotation	Response of Screen	Image
Rc1, Bc1	Clockwise	Screen rotates clockwise around P1 in the lower right corner of the screen.	
	Counterclockwise	Screen rotates counterclockwise around P1 in the lower right corner of the screen.	
Rc2, Bc2	Clockwise	Screen rotates counterclockwise around P2 in the lower left corner of the screen.	
	Counterclockwise	Screen rotates clockwise around P2 in the lower left corner of the screen.	
Rc3, Bc3	Clockwise	The entire screen moves to the left.	
	Counterclockwise	The entire screen moves to the right.	

Table 1

#### <Blue Convergence Adj.>

4. Input Blue & Green crosshatch pattern image into RGB IN (RGB1 or RGB2) by running the adjusting software.
5. Turn 3 hexagonal adjusting screws (Bc1, Bc2 and Bc3) for the Blue & Green crosshatch pattern image to obtain correct position by referring Table 1.

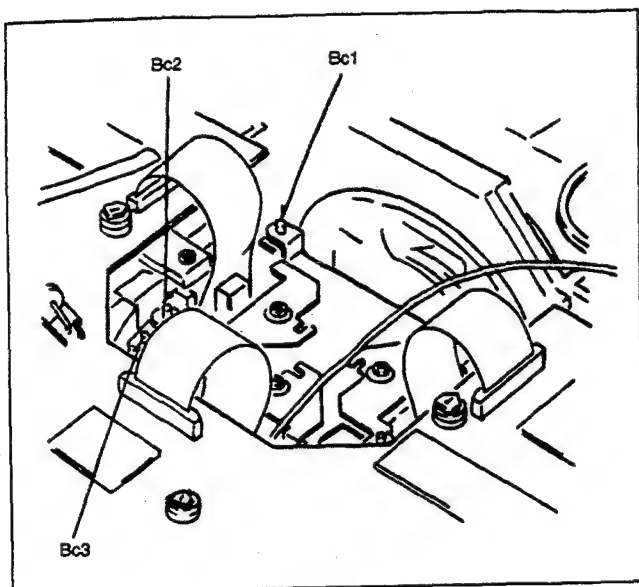


Fig. 5

6. Input the crosshatch pattern image into RGB IN.
7. Confirm that the Red & Blue crosshatch pattern aligns exactly with the Green crosshatch pattern.
8. Repeat steps 2-7 if there is any distortion.

## ■ Deflecting Plate Adjustment

### 1. EQUIPMENT TO BE USED

Epoxide Resin Adhesive

### 2. INITIAL CONDITION

BACK COLOR.....BLACK

### 3. ADJUSTMENT

1. Nothing should be connected to the input terminal when performing this adjustment.

<Red Deflecting Plate Adj.>

2. Loosen a screw (Rd).

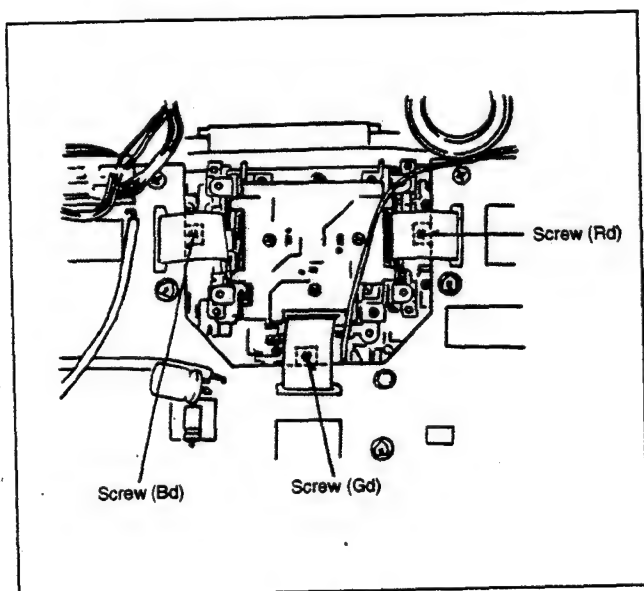


Fig. 6

3. Move the screw (Rd) from side to side to lower black color on the screen as much as possible.
4. Tighten a screw (Rd).
5. Apply adhesive to the screw (Rd) and fix it firmly.

<Green Deflecting Plate Adj.>

6. Loosen a screw (Gd). (See Fig. 6)
7. Move the screw (Gd) from side to side to lower black color on the screen as much as possible.
8. Tighten a screw (Gd).
9. Apply adhesive to the screw (Gd) and fix it firmly.

<Blue Deflecting Plate Adj.>

10. Loosen a screw (Bd). (See Fig. 6)
11. Move the screw (Bd) from side to side to lower black color on the screen as much as possible.
12. Tighten a screw (Bd).
13. Apply adhesive to the screw (Bd) and fix it firmly.
14. Receive signals and check to see that extreme black floating and/or sinking is not observed upon completion of adjustment.

## ■ Common Voltage Adjustment

### 1. EQUIPMENT TO BE USED

Computer (adjusting software preinstalled computer)

Digital Voltmeter

Two sheets of Black Papers (The size of the paper should be large enough to shield the light reaching the LCD Unit.)

### 2. INITIAL CONDITION

PICTURE SIZE.....0.762 m (30") wide

### 3. ADJUSTMENT

1. Input a pattern image marked with continuous alternating white and black stripes into RGB IN (RGB1 or RGB2) by running the adjusting software.

<LCD Unit (Green) Adj.>

2. Connect a digital voltmeter to 2 pin of R2011 and ground (TPA2 or TPA7).

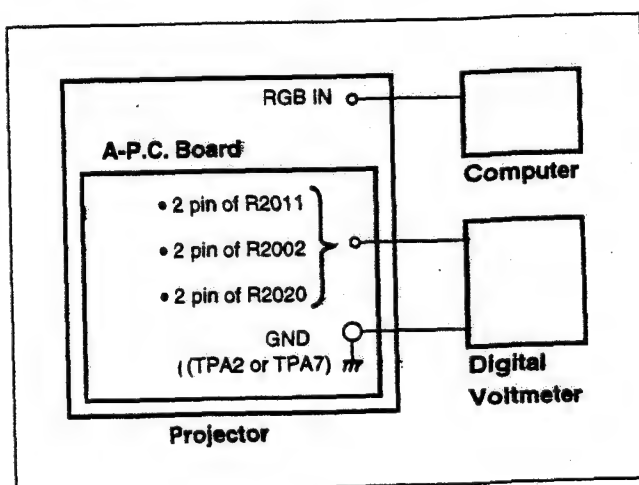


Fig. 7

3. Insert the black paper to ① and ② so that no light comes from any object other than LCD Unit (Green). (See Fig. 8)

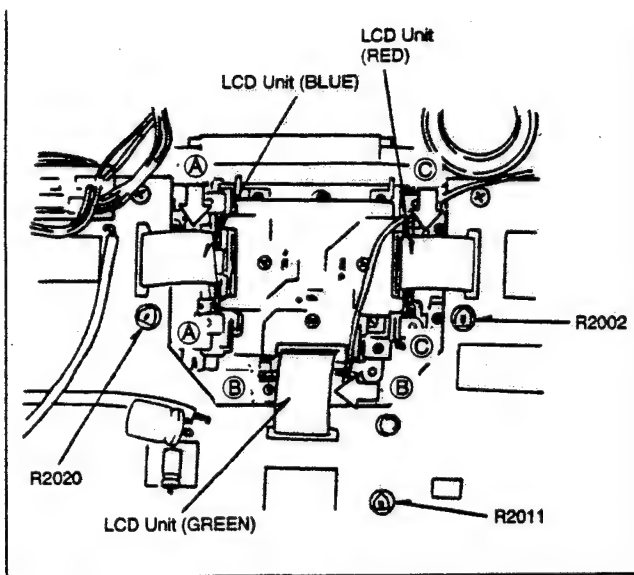


Fig. 8

4. Adjust R2011 to reduce luminance flicker as much as possible.
5. Ensure that the voltage of 2 pin of R2011 shows 4.9V approximately.
6. Adjust R2011 again when the reading shows a figure far from 4.9V.

**<LCD Unit (Red) Adj.>**

7. Connect a digital voltmeter to 2 pin of R2002 and ground (TPA2 or TPA7). (See Fig. 7)
8. Insert the black paper to A and B so that no light comes from any object other than LCD Unit (Red). (See Fig. 8)
9. Adjust R2002 to reduce luminance flicker as much as possible.
10. Ensure that the voltage of 2 pin of R2002 shows 4.9V approximately.
11. Adjust R2002 again when the reading shows a figure far from 4.9V.

**<LCD Unit (Blue) Adj.>**

12. Connect a digital voltmeter to 2 pin of R2002 and ground (TPA2 or TPA7).
13. Insert the black paper between B and C so that no light comes from any object other than LCD Unit (Blue). (See Fig. 8)
14. Adjust R2020 to reduce luminance flicker as much as possible.
15. Ensure that the voltage of 2 pin of R2020 shows 4.7V approximately.
16. Adjust R2020 again when the reading shows a figure far from 4.7V.

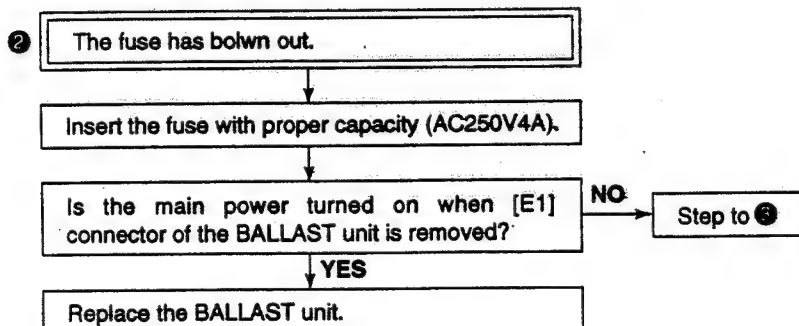
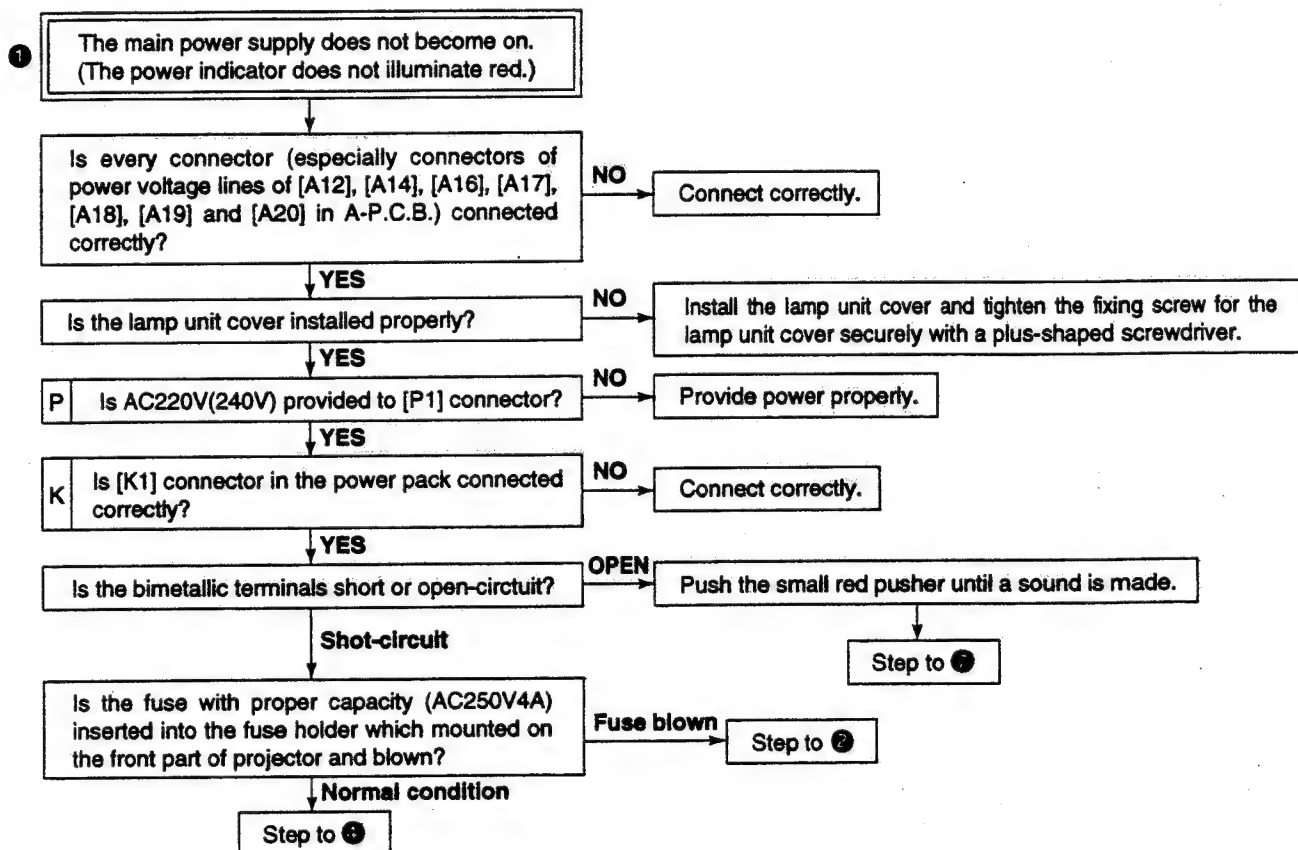
# Checking Point Procedure

- The letters in front of the inspection outline items indicate the P.C. boards related to the respective item.

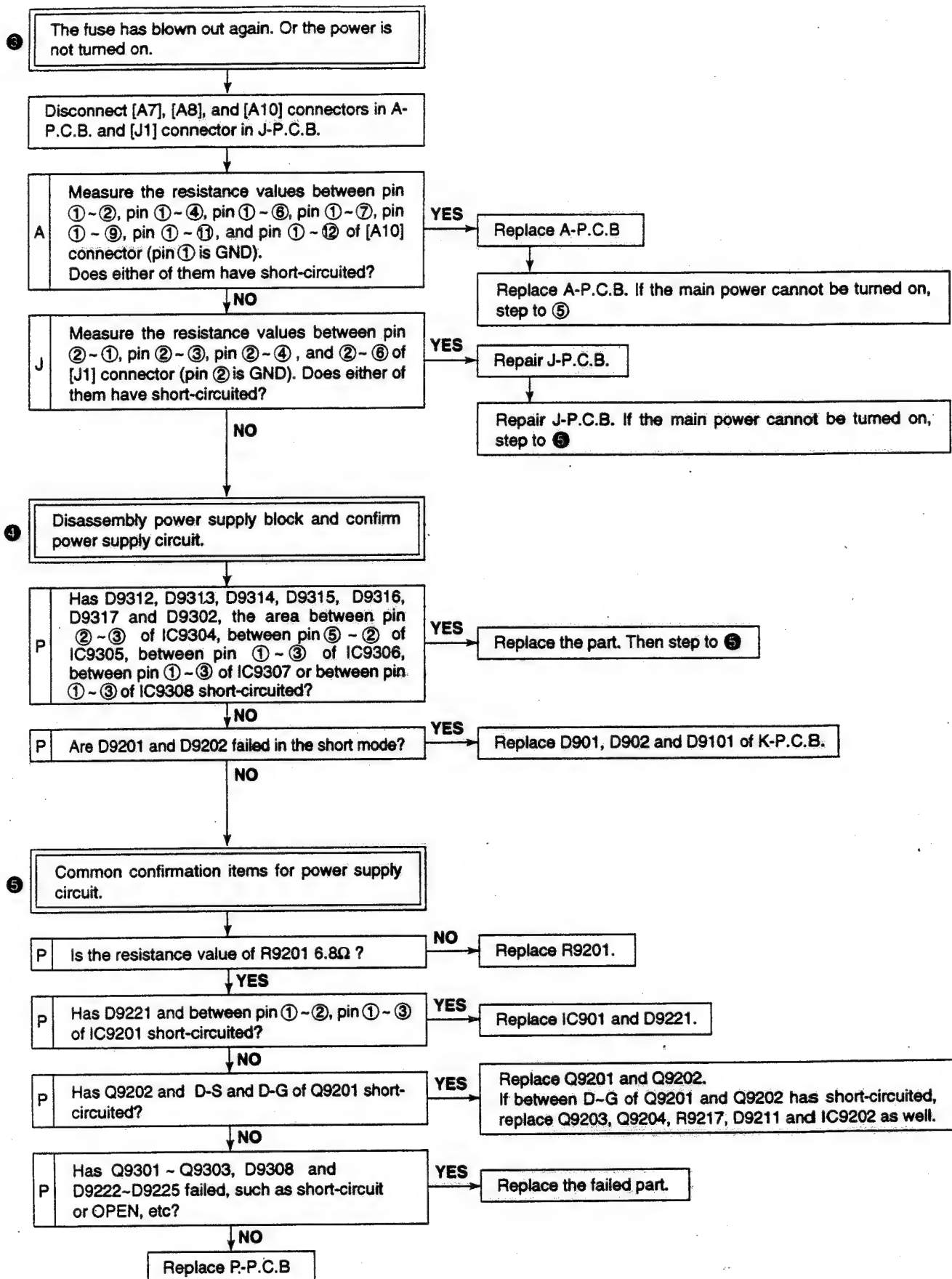
Note: **A** [ ]

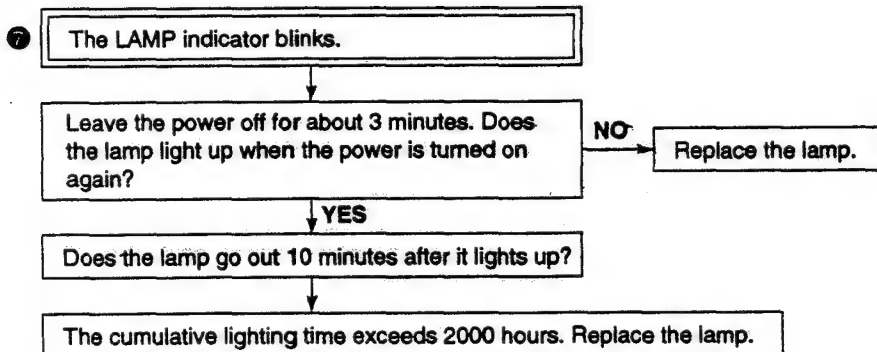
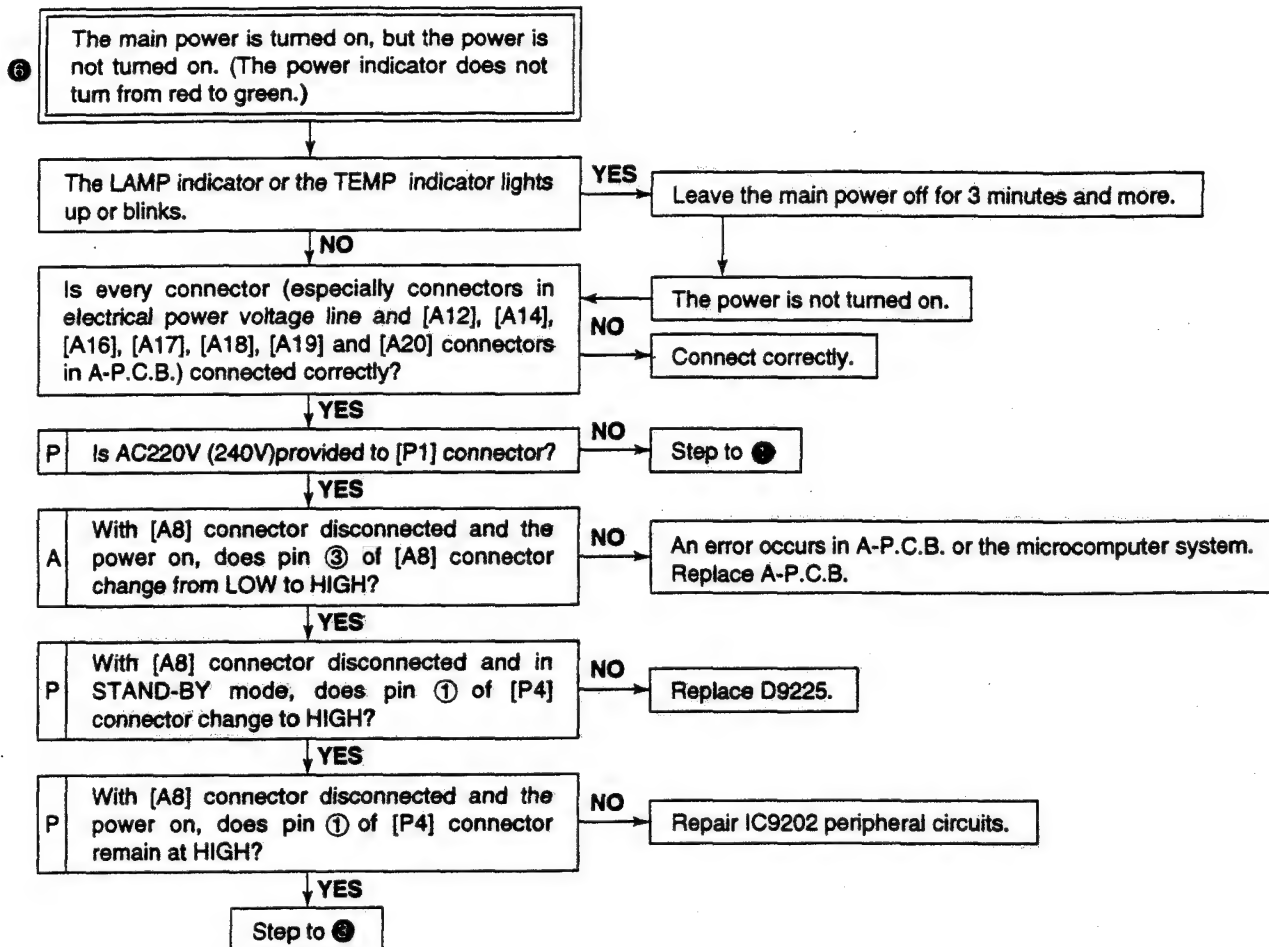
The Alphabet indicates the P.C.Board Name.

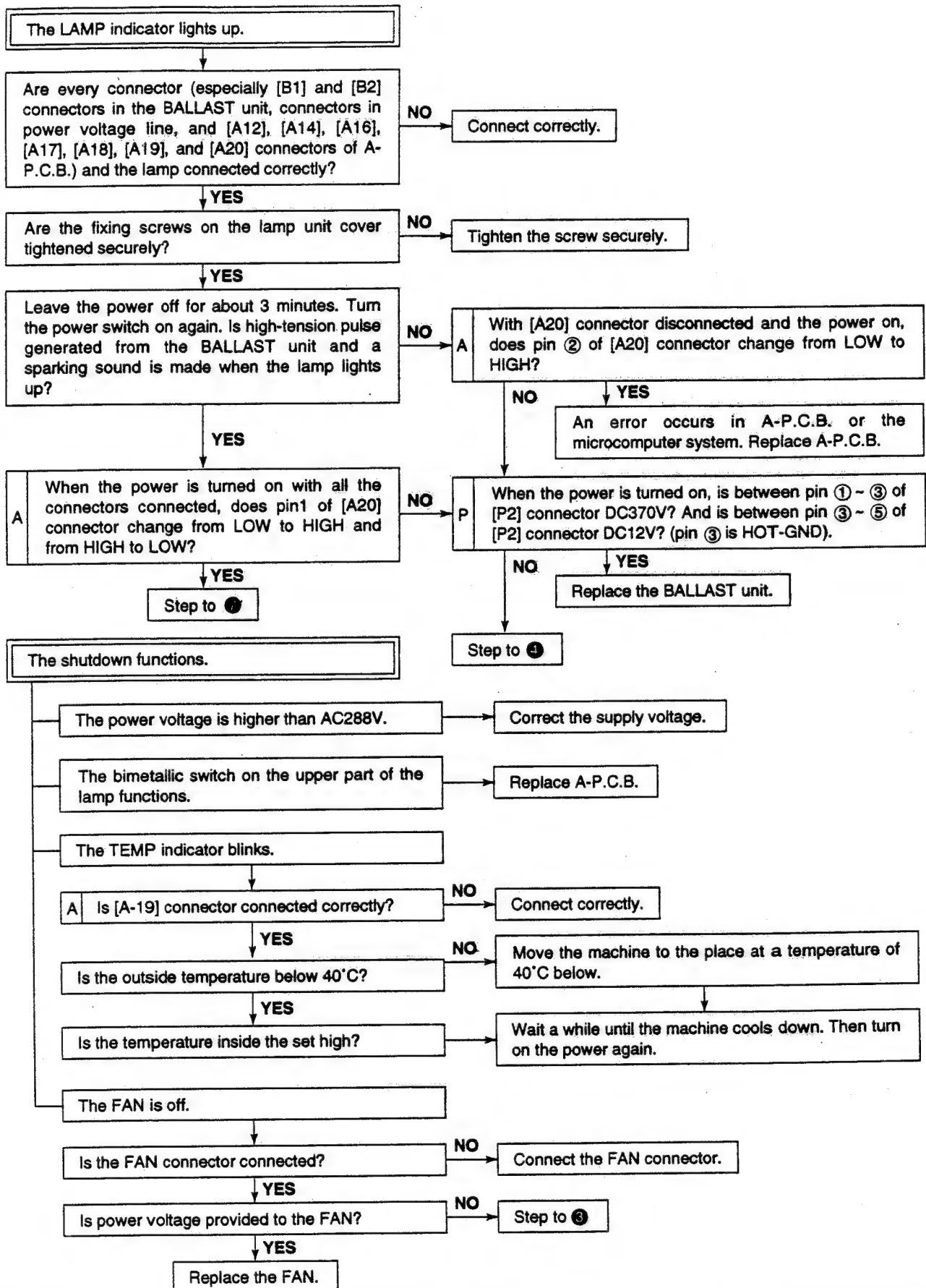
- If you replace the A-P.C. Board, first remove the IC7001(EEPROM:24LC16 BIPA24) from old - P.C. Board, then install removed IC on the new P.C. Board.

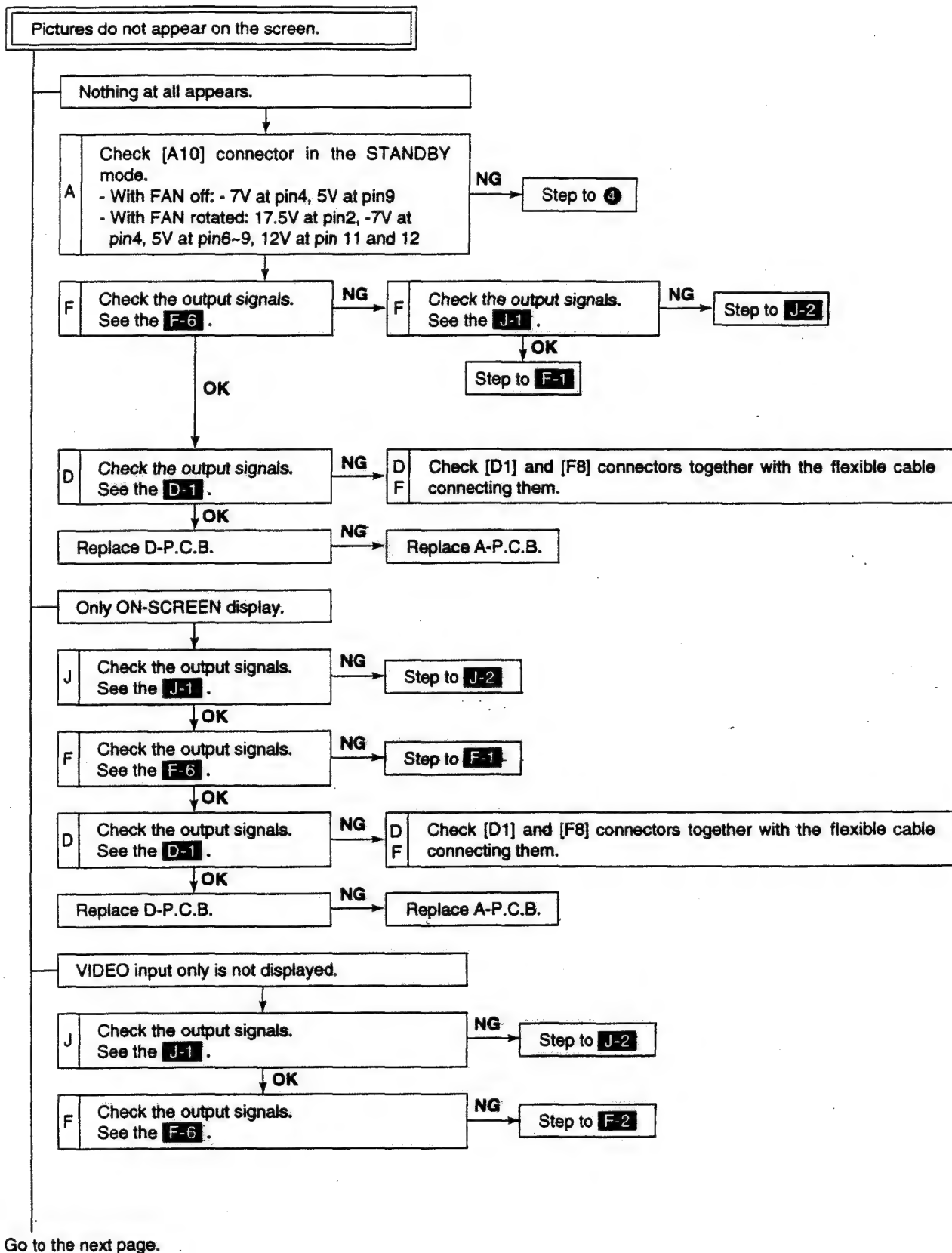


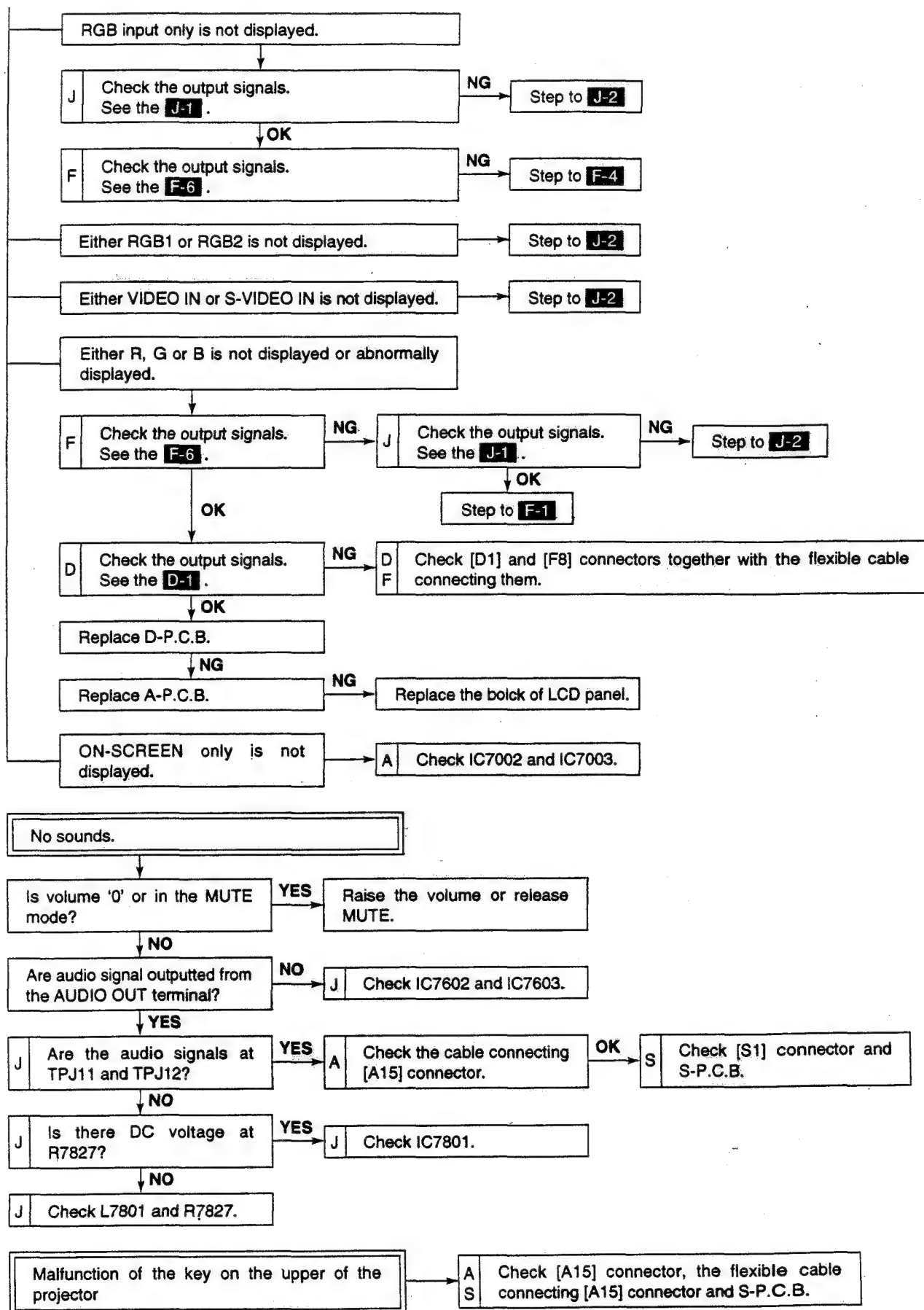


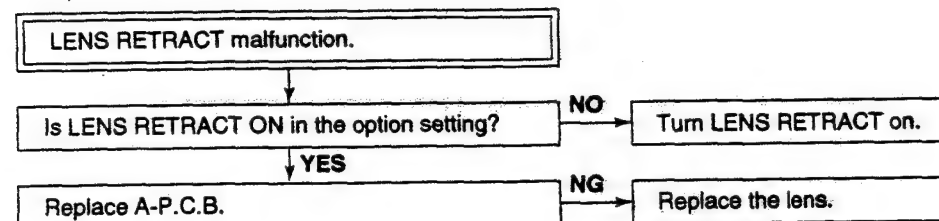
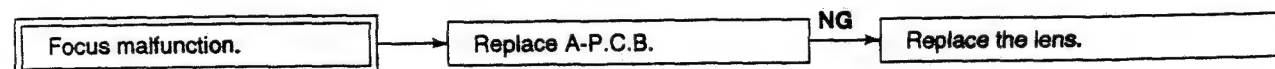
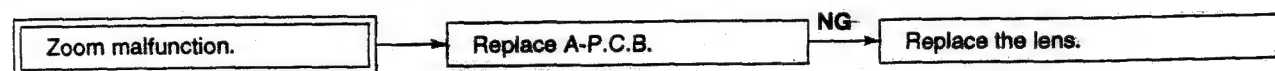
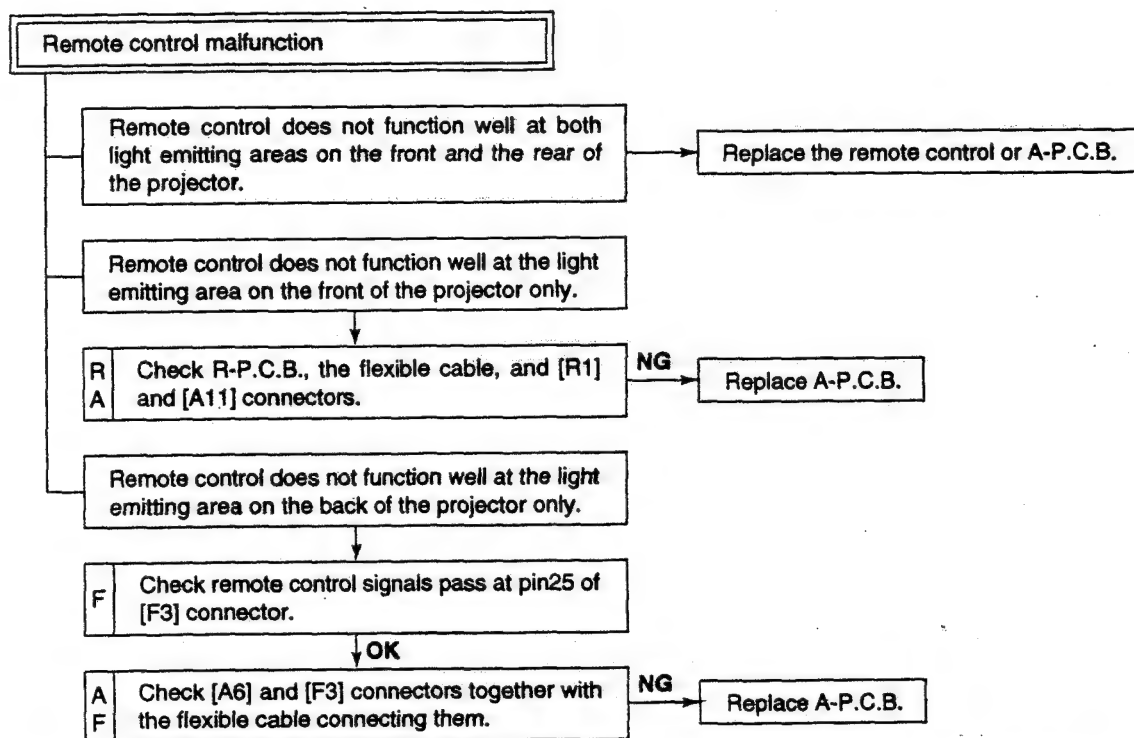
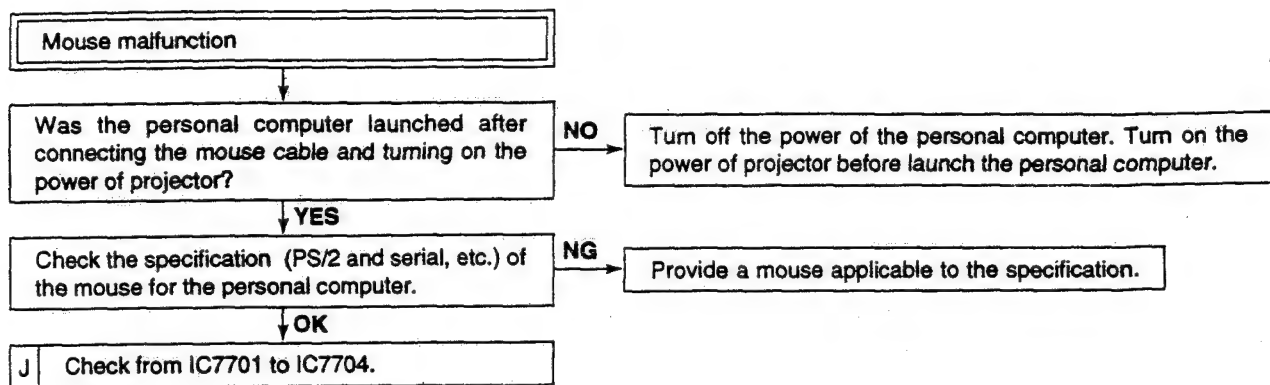


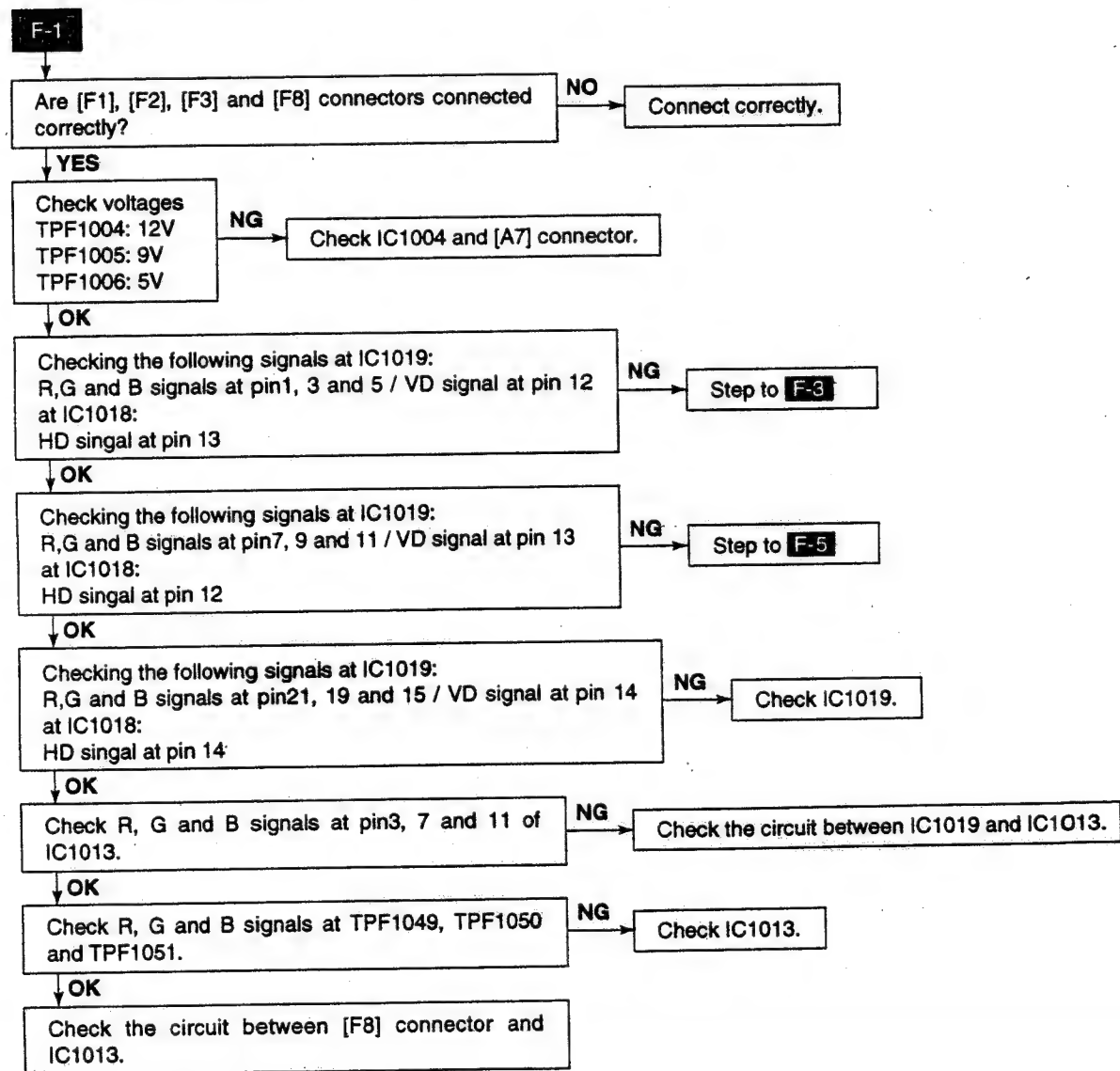
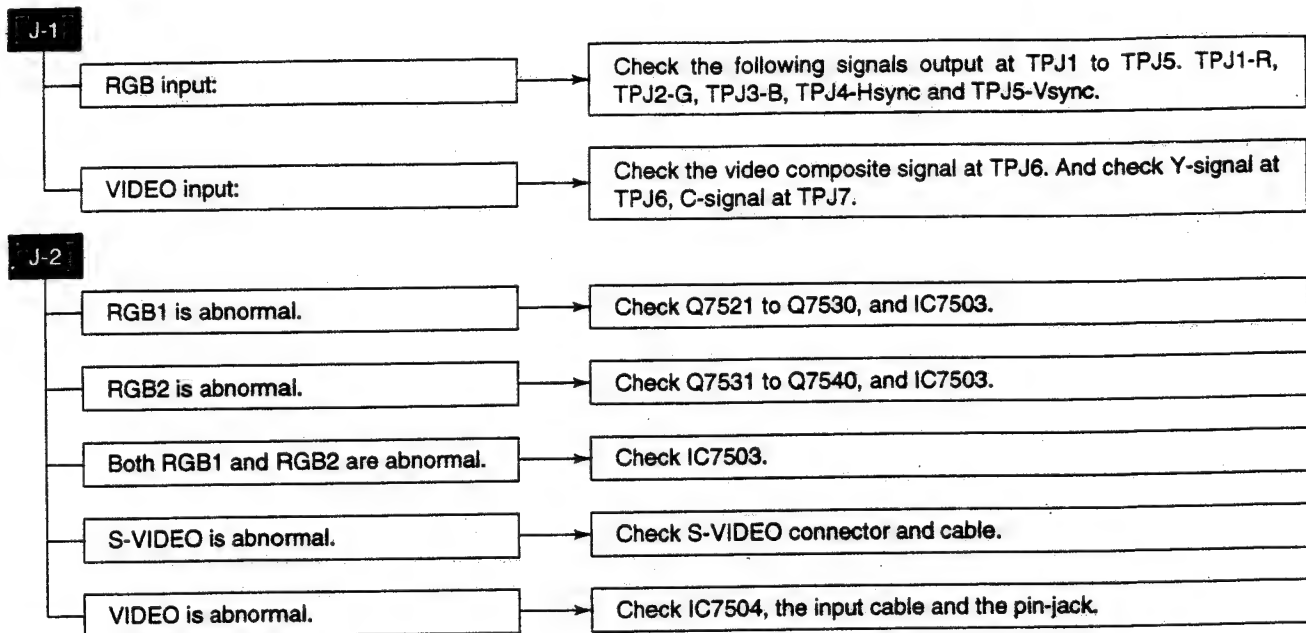


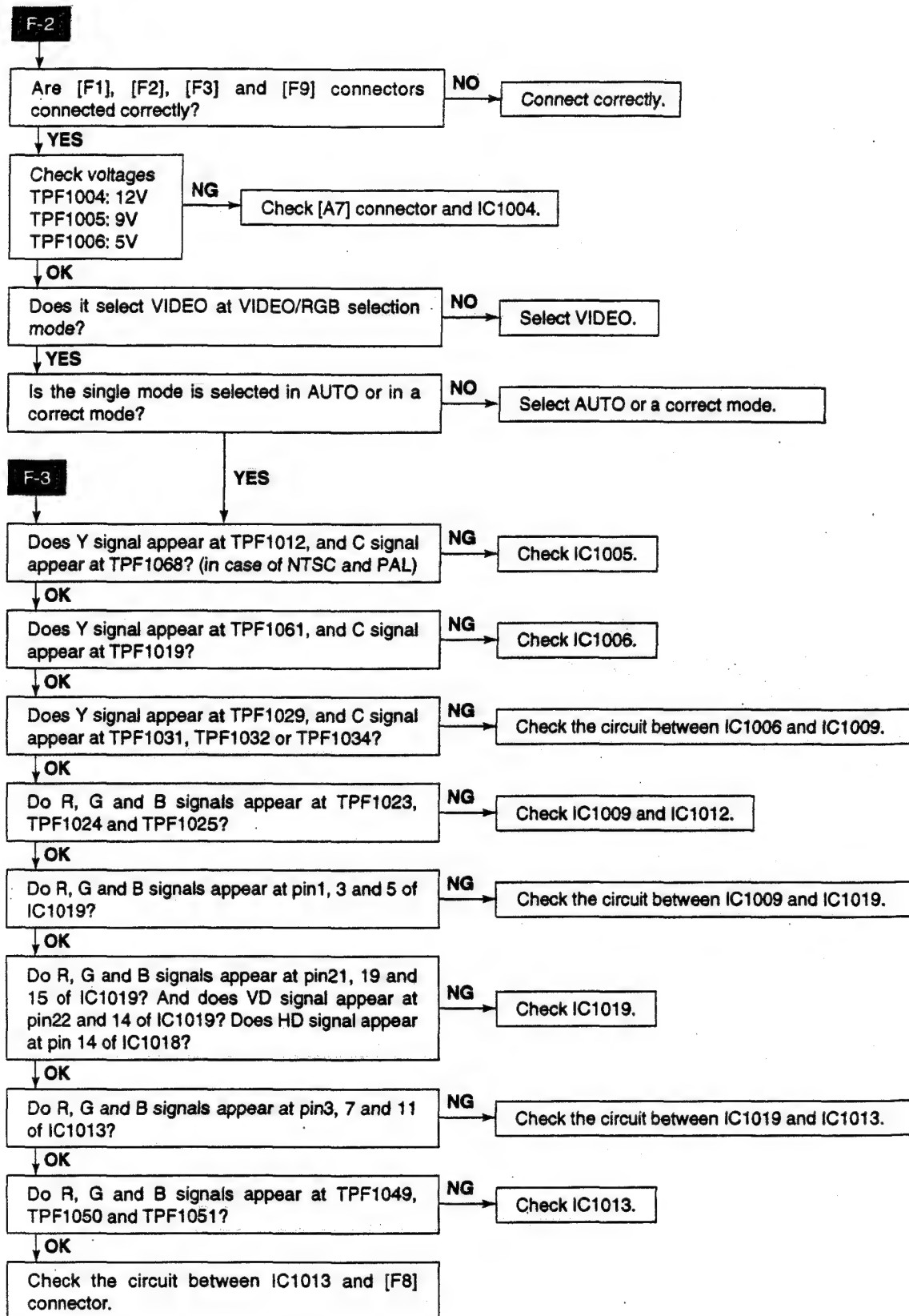














**F-4**

Are [F1], [F2], [F3] and [F8] connectors connected correctly? NO → Connect correctly.

YES

Check voltages  
TPF1004: 12V  
TPF1005: 9V  
TPE1006: 5V

NG →

Check IC1004 and [A7] connector.

OK

Is RGB1 or RGB2 selected correctly at Video/RGB1/RGB2 selection mode? NO → Select RGB1 or RGB2.

YES

**F-5**

Do R, G and B signals appear at pin7, 9 and 11 of IC1019? NG → Check the circuit between [F2] connector and IC1019.

OK

Do HD and VD signals appear at TPF1002 and TPF1003? NG → Check IC1002.

OK

Do R, G and B signals appear at pin21, 19 and 15 of IC1019? And does VD signal appear at pin22 and 14 of IC1019? Does HD signal appear at pin 14 of IC1018? NG → Check IC1019.

OK

Do R, G and B signals appear at pin3, 7 and 11 of IC1013? NG → Check the circuit between IC1019 and IC1013.

OK

Do R, G and B signals appear at TPF1049, TPF1050 and TPF1051? NG → Check IC1013.

OK

Check the circuit between IC1013 and [F8] connector.

**F-6**

Check the signals, Red at TPF1057, Green at TPF1058, Blue at TPF1059, HD at TPF1009 and VD at TPF1146.

**D-1**

Check the signals, red at TPD12, blue at TPD10, green at TPD11, Hsync at TPD1 and Vsync at TPD2.

Circuit Boards

P-P.C. Board TNPA0669AB  
(Foil Side)

P-P.C. Board TNPA0669AB  
(Component Side)

P-P.C. Board (Foil Side)		
IC		
IC9201	C-4	
IC9202	B-3	
IC9203	D-3	
IC9204	C-2	
IC9205	C-3	
IC9301	A-3	
IC9302	A-2	
IC9305	A-4	
IC9306	A-3	
IC9307	A-2	
IC9308	B-3	
TRANSISTOR		
Q9201	E-5	
Q9202	D-5	
Q9203	D-3	
Q9204	D-3	
Q9205	D-2	
Q9301	B-2	
Q9302	B-2	
Q9303	C-2	
Q9304	A-2	
Q9305	A-3	
TP		
TPP1	B-2	
TPP2	B-2	
TPP3	B-2	
TPP4	A-3	
TPP5	A-3	
TPP6	B-2	
TPP7	A-2	
TPP8	A-3	
TPP95G	B-3	

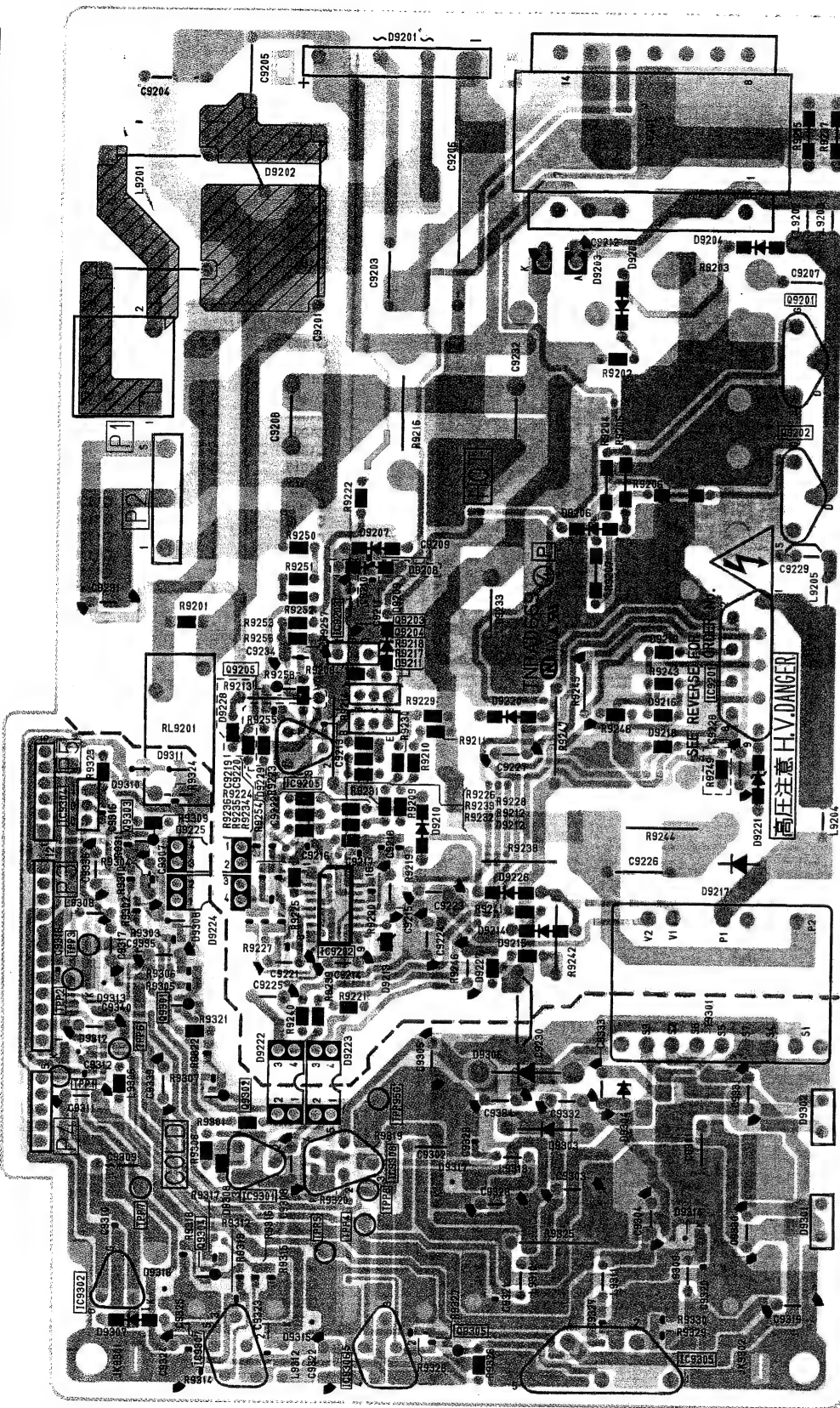
ADDRESS INFORMATION

P-P.C. Board (Component Side)	
IC	
IC9201	
IC9203	
IC9205	
IC9301	
IC9302	
IC9304	
IC9305	
IC9306	
IC9307	
IC9308	
TRANSIST	
Q9201	
Q9202	
Q9203	
Q9204	

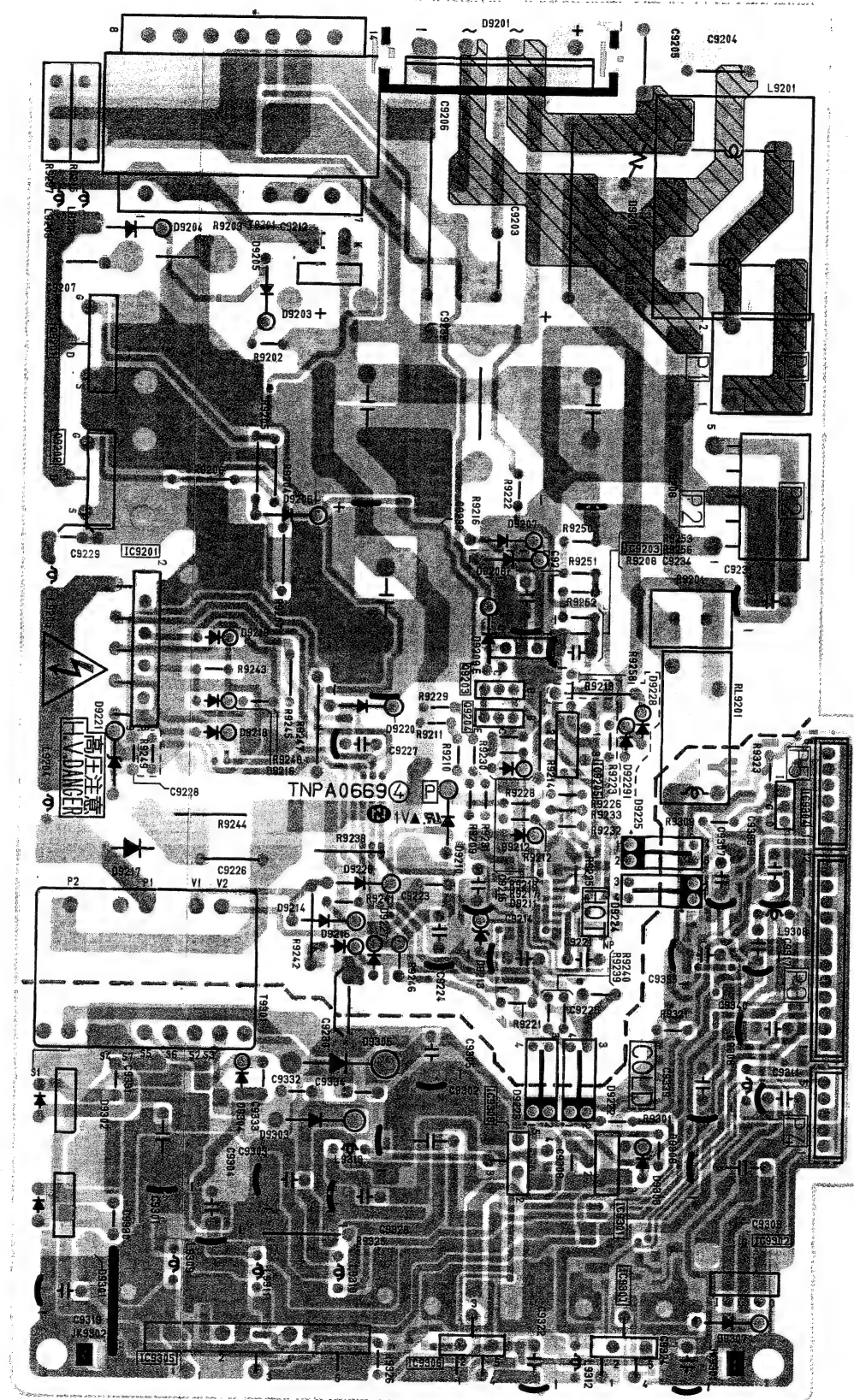
ADDRESS IN



P-P.C. Board TNPA0669AB  
(Foil Side)



P-P.C. Board TNPA0669AB  
(Component Side)

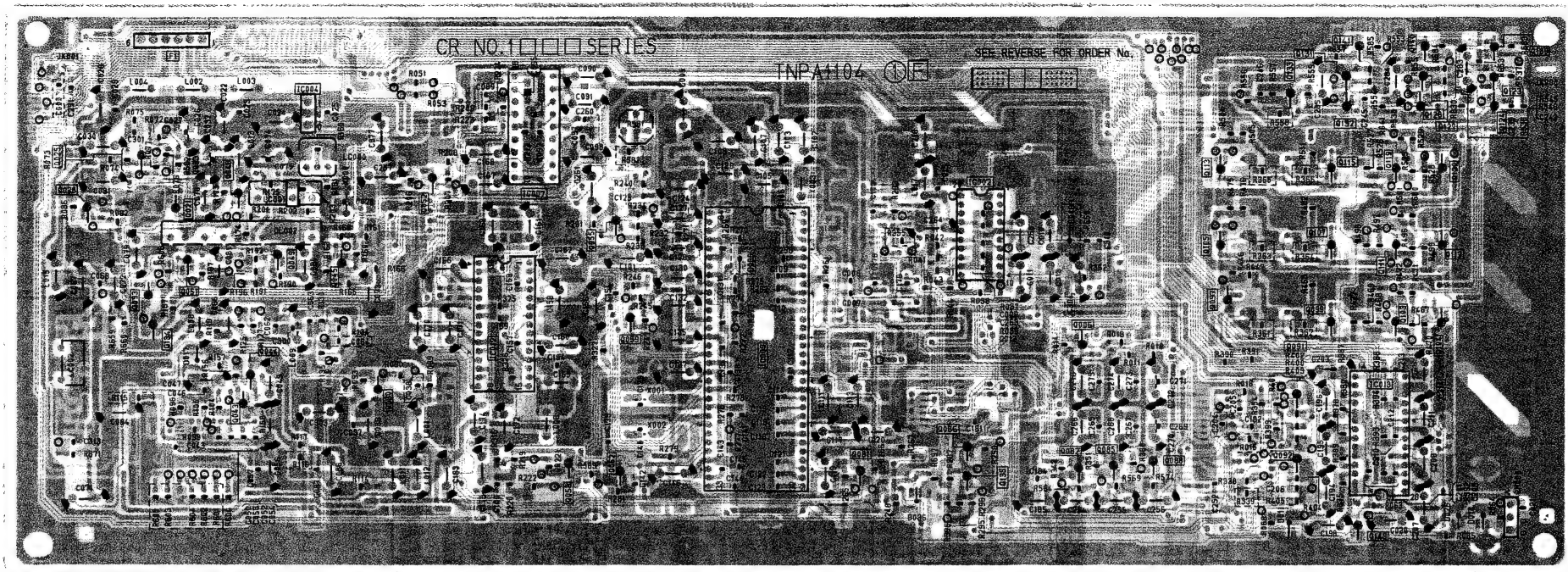


P-P.C. Board (Component Side)	
IC	
IC9201	D-6
IC9203	D-7
IC9205	C-7
IC9301	A-8
IC9302	A-8
IC9304	C-8
IC9305	A-6
IC9306	A-7
IC9307	A-8
IC9308	B-7
TRANSISTOR	
Q9201	E-5
Q9202	D-5
Q9203	C-7
Q9204	C-7

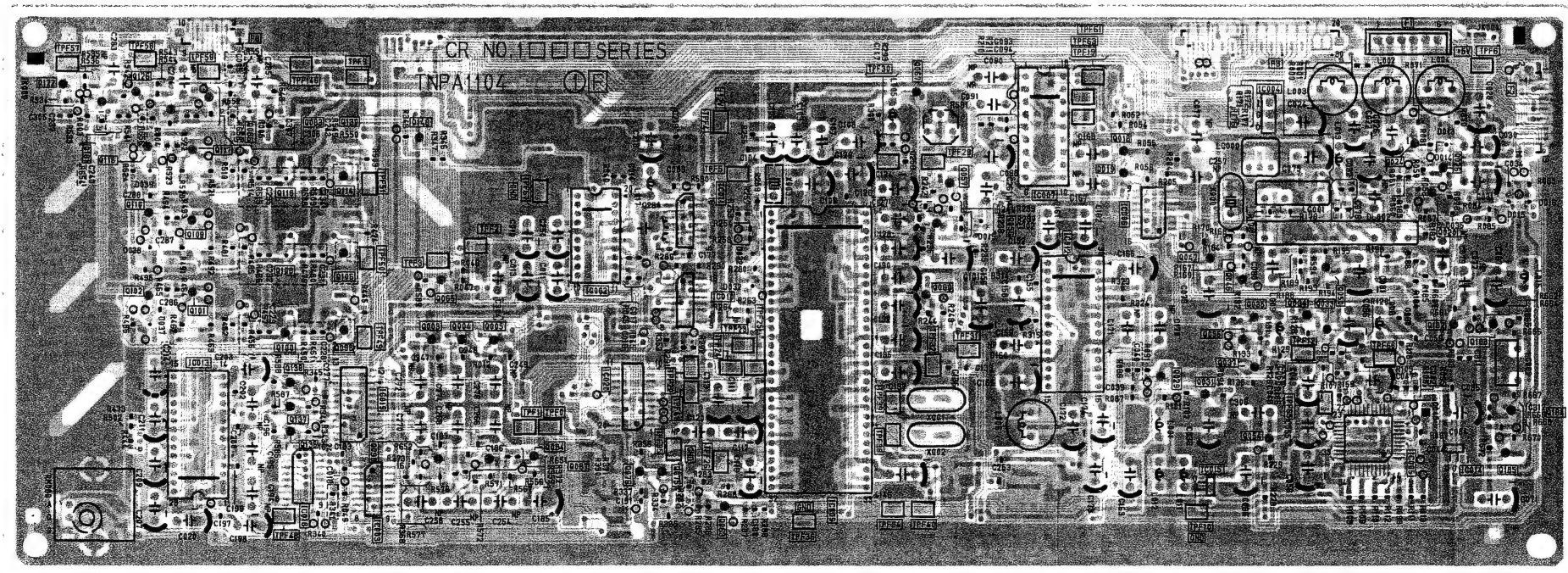
ADDRESS INFORMATION



F-P.C. Board TNPA1104AA  
(Foil Side)



F-P.C. Board TNPA1104AA  
(Component Side)

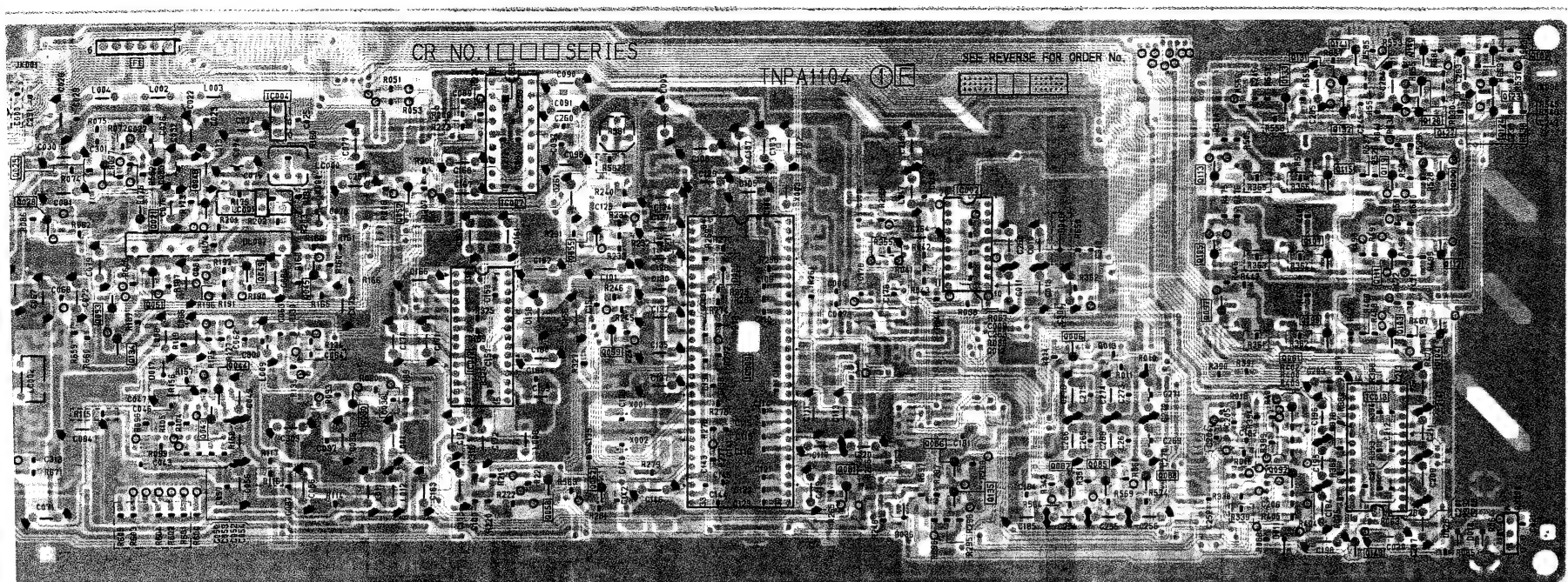


F-P.C. Board (Foil Side and Comp)			
IC			
IC1000	A-3	Q1066	D-4
IC1001	A-3	Q1067	C-4
IC1002	B-3	Q1072	A-5
IC1003	A-2	Q1073	A-5
IC1004	C-6	Q1074	A-5
IC1005	A-6	Q1075	A-3
IC1006	B-5	Q1076	A-3
IC1007	B-5	Q1077	D-3
IC1008	A-4	Q1078	D-3
IC1009	B-4	Q1079	A-5
IC1010	B-4	Q1080	B-1
IC1011	B-4	Q1082	D-5
IC1012	B-5	Q1083	B-2
IC1013	A-1	Q1084	A-3
IC1015	B-3	Q1085	D-5
IC1018	A-2	Q1086	B-2
IC1019	A-2	Q1087	A-3
IC1020	A-3	Q1088	D-5
IC1021	B-1	Q1090	A-2
		Q1091	D-6
		Q1092	D-6
		Q1093	E-1
		Q1097	E-6
		Q1098	B-2
		Q1099	D-6
		Q1100	B-2
		Q1101	B-1
		Q1102	B-1
		Q1103	E-6
		Q1104	D-6
		Q1106	B-2
		Q1107	E-6
		Q1108	B-2
		Q1109	B-1
		Q1110	B-1
		Q1111	E-6
		Q1112	E-7
		Q1113	E-6
		Q1114	B-2
		Q1115	E-6
		Q1116	B-2
		Q1117	B-1
		Q1118	B-1
		Q1119	E-6
		Q1120	E-7
		Q1121	E-6
		Q1122	C-1
		Q1123	E-7
		Q1124	E-7
		Q1125	E-6
		Q1126	C-1
		Q1127	F-6
		Q1128	E-6
		Q1129	E-7
		Q1130	B-2
		Q1131	F-6
		Q1132	E-6
		Q1133	F-6
		Q1134	D-1
		Q1135	D-5
		Q1136	A-2
		Q1137	A-2
		Q1138	A-2
		Q1139	F-7
		Q1140	F-6
		Q1141	F-6
		Q1143	D-6
		Q1147	B-2
		Q1148	B-2
		Q1149	B-2
		Q1181	B-1

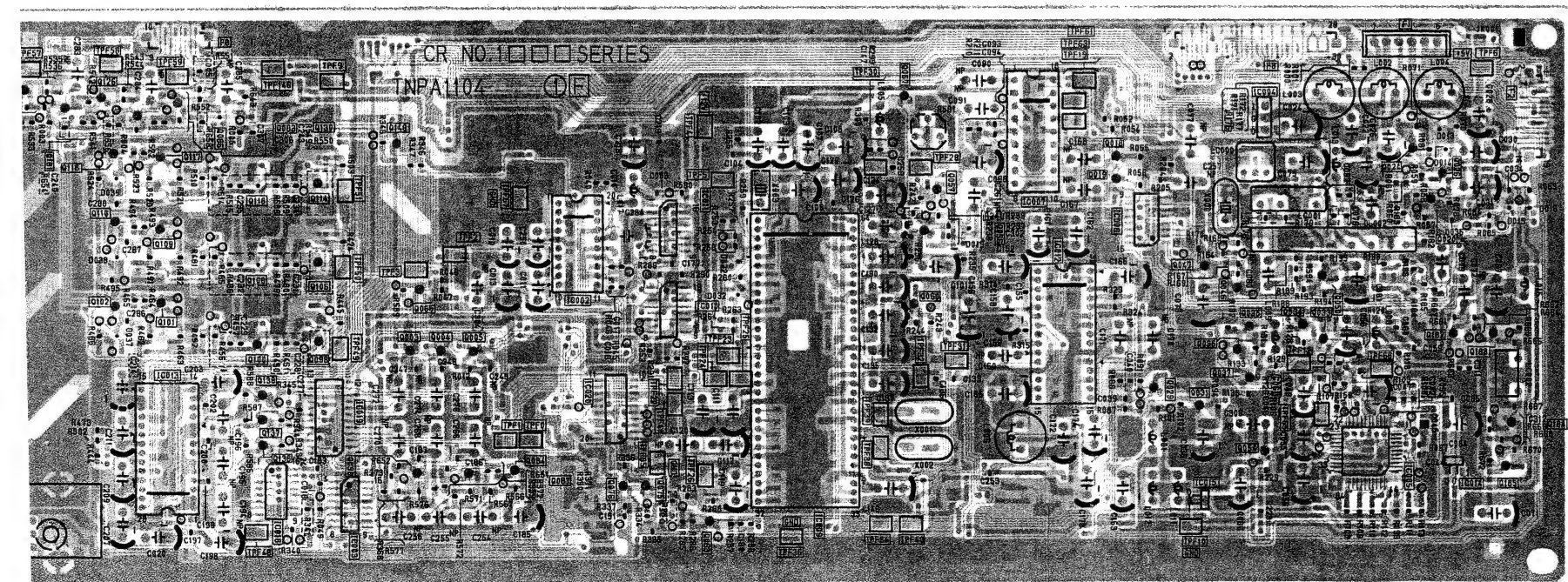
ADDRESS INFORMATION



C. Board TNPA1104AA  
(Foil Side)



C. Board TNPA1104AA  
(Component Side)



F-P.C. Board (Foil Side and Component Side)					
IC				TP	
IC1000	A-3	Q1066	D-4	TPF1000	A-3
IC1001	A-3	Q1067	C-4	TPF1001	A-3
IC1002	B-3	Q1072	A-5	TPF1002	B-3
IC1003	A-2	Q1073	A-5	TPF1003	B-2
IC1004	C-6	Q1074	A-5	TPF1004	B-3
IC1005	A-6	Q1075	A-3	TPF1005	B-4
IC1006	B-5	Q1076	A-3	TPF1006	C-7
IC1007	B-5	Q1077	D-3	TPF1009	C-2
IC1009	A-4	Q1078	D-3	TPF1010	A-5
IC1010	B-4	Q1079	A-5	TPF1012	B-6
IC1011	B-4	Q1080	B-1	TPF1019	C-5
IC1012	B-5	Q1082	D-5	TPF1022	A-3
IC1013	A-1	Q1083	B-2	TPF1023	B-4
IC1015	B-3	Q1084	A-3	TPF1024	B-4
IC1018	A-2	Q1085	D-5	TPF1025	B-4
IC1019	A-2	Q1086	B-2	TPF1026	A-3
IC1020	A-3	Q1087	A-3	TPF1029	B-4
IC1021	B-1	Q1088	D-5	TPF1030	C-4
TRANSISTOR		Q1090	A-2	TPF1031	B-5
Q1003	B-2	Q1091	D-6	TPF1032	B-4
Q1004	B-2	Q1092	D-6	TPF1034	A-4
Q1005	B-3	Q1093	E-1	TPF1035	A-3
Q1006	D-5	Q1097	E-6	TPF1036	A-4
Q1007	A-1	Q1098	B-2	TPF1038	A-4
Q1008	A-1	Q1099	D-6	TPF1039	A-4
Q1009	D-7	Q1100	B-2	TPF1040	A-4
Q1010	B-1	Q1101	B-1	TPF1041	A-3
Q1011	A-1	Q1102	B-1	TPF1048	A-2
Q1012	A-1	Q1103	E-6	TPF1049	B-2
Q1013	D-7	Q1104	D-6	TPF1050	B-2
Q1014	B-1	Q1106	B-2	TPF1051	B-2
Q1015	A-1	Q1107	E-6	TPF1057	C-1
Q1015	E-6	Q1108	B-2	TPF1058	C-1
Q1016	A-1	Q1109	B-1	TPF1059	C-1
Q1017	D-7	Q1110	B-1	TPF1061	C-5
Q1018	B-5	Q1111	E-6	TPF1063	C-5
Q1019	B-5	Q1112	E-7	TPF1064	B-3
Q1020	B-6	Q1113	E-6	TPF1065	A-6
Q1021	E-1	Q1114	B-2	TPF1067	B-3
Q1024	B-6	Q1115	E-6	TPF1068	B-6
Q1025	E-1	Q1116	B-2	TPF1146	C-2
Q1026	B-7	Q1117	B-1		
Q1028	E-1	Q1118	B-1		
Q1029	A-5	Q1119	E-6		
Q1030	D-2	Q1120	E-7		
Q1031	A-5	Q1121	E-6		
Q1033	B-6	Q1122	C-1		
Q1034	B-6	Q1123	E-7		
Q1035	B-6	Q1124	E-7		
Q1036	B-6	Q1125	E-6		
Q1037	A-6	Q1126	C-1		
Q1039	B-6	Q1127	F-6		
Q1040	A-7	Q1128	E-6		
Q1041	A-7	Q1129	E-7		
Q1042	D-1	Q1130	B-2		
Q1043	D-2	Q1131	F-6		
Q1044	D-2	Q1132	E-6		
Q1045	E-2	Q1133	F-6		
Q1046	B-6	Q1134	D-1		
Q1047	B-5	Q1135	D-5		
Q1048	E-2	Q1136	A-2		
Q1049	E-2	Q1137	A-2		
Q1050	B-6	Q1138	A-2		
Q1051	E-1	Q1139	F-7		
Q1052	E-2	Q1140	F-6		
Q1054	A-6	Q1141	F-6		
Q1055	E-3	Q1143	D-6		
Q1056	B-5	Q1147	B-2		
Q1057	B-4	Q1148	B-2		
Q1058	D-3	Q1149	B-2		
Q1059	D-3	Q1181	B-1		
Q1060	B-4				
Q1061	D-4				
Q1062	D-3				
Q1063	A-4				
Q1065	B-2				

ADDRESS INFORMATION

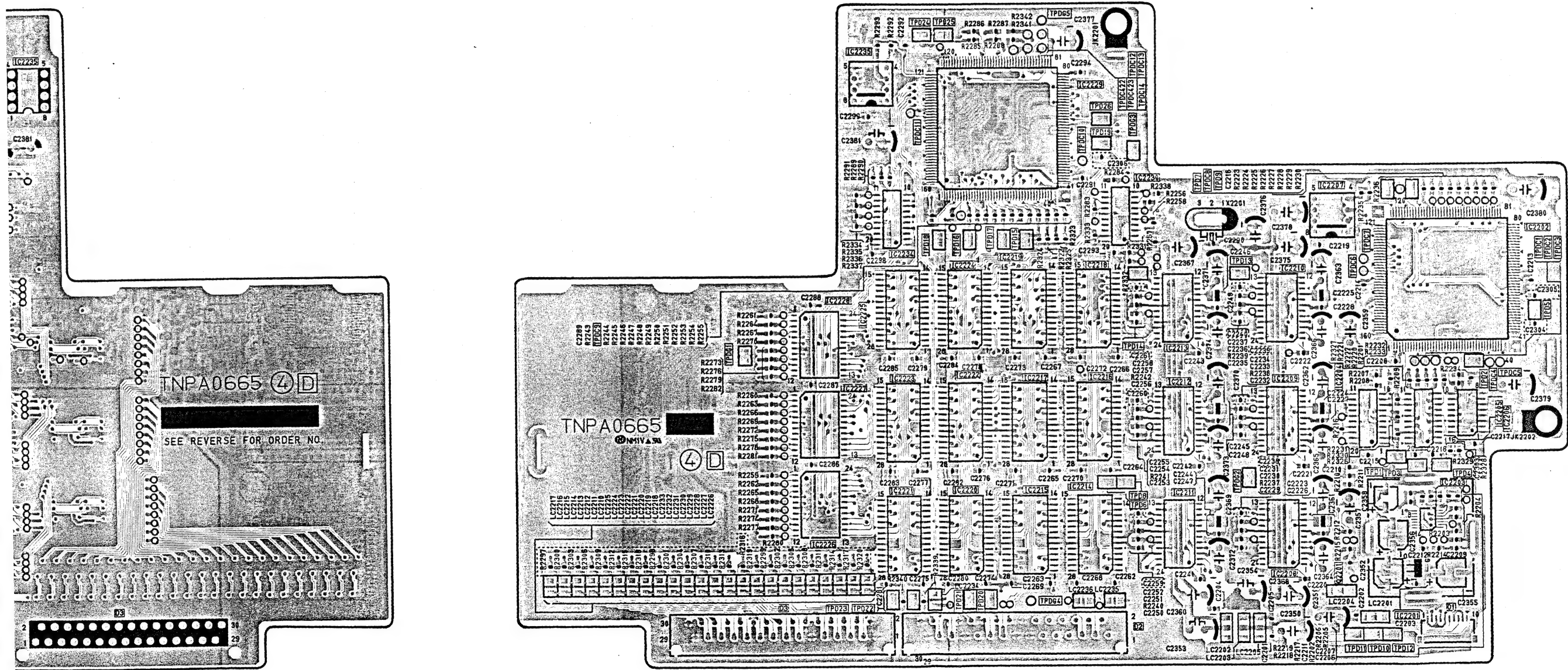




D-P.C. Board TNPA0665AC  
(Component Side)

D-P.C. Board (Component Side)							
IC		IC		TPD		TPDC	
IC2201	A-13	IC2222	B-10	TPD6	B-11	TPDC1	C-13
IC2202	C-13	IC2223	B-10	TPD7	C-12	TPDC2	C-14
IC2204	B-12	IC2224	C-10	TPD8	B-11	TPDC3	C-14
IC2205	B-13	IC2225	C-10	TPD9	C-12	TPDC4	B-13
IC2206	B-13	IC2226	A-9	TPD10	A-13	TPDC5	B-13
IC2207	C-12	IC2227	B-9	TPD11	A-12	TPDC6	C-12
IC2208	A-12	IC2228	C-9	TPD12	A-13	TPDC7	C-12
IC2209	B-12	IC2229	D-11	TPD13	C-12	TPDC8	C-12
IC2210	C-12	IC2230	C-11	TPD14	B-11	TPDC9	C-8
IC2211	B-11	IC2234	C-10	TPD15	C-10	TPDC10	D-11
IC2212	B-11	IC2235	D-10	TPD16	C-10	TPDC11	D-10
IC2213	B-11	TRANSISTOR		TPD17	C-10	TPDC12	D-11
IC2214	B-11	Q2201		TPD18	C-10	TPDC13	D-11
IC2215	B-11	TP		TPD19	D-11	TPDC14	D-11
IC2216	B-11	TPD1		TPD20	A-10	TPDC422	D-11
IC2217	B-11	TPD2		TPD21	A-10	TPDC423	D-11
IC2218	C-11	TPD3		TPD22	A-10	TPDG1	B-9
IC2219	C-10	TPD4		TPD23	A-9	TPDG2	B-12
IC2220	B-10	TPD5		TPD24	D-10	TPDG3	D-11
IC2221	B-10	TPD5		TPD25	D-10	TPDG4	A-11
				TPD26	D-11	TPDG5	D-11

ADDRESS INFORMATION



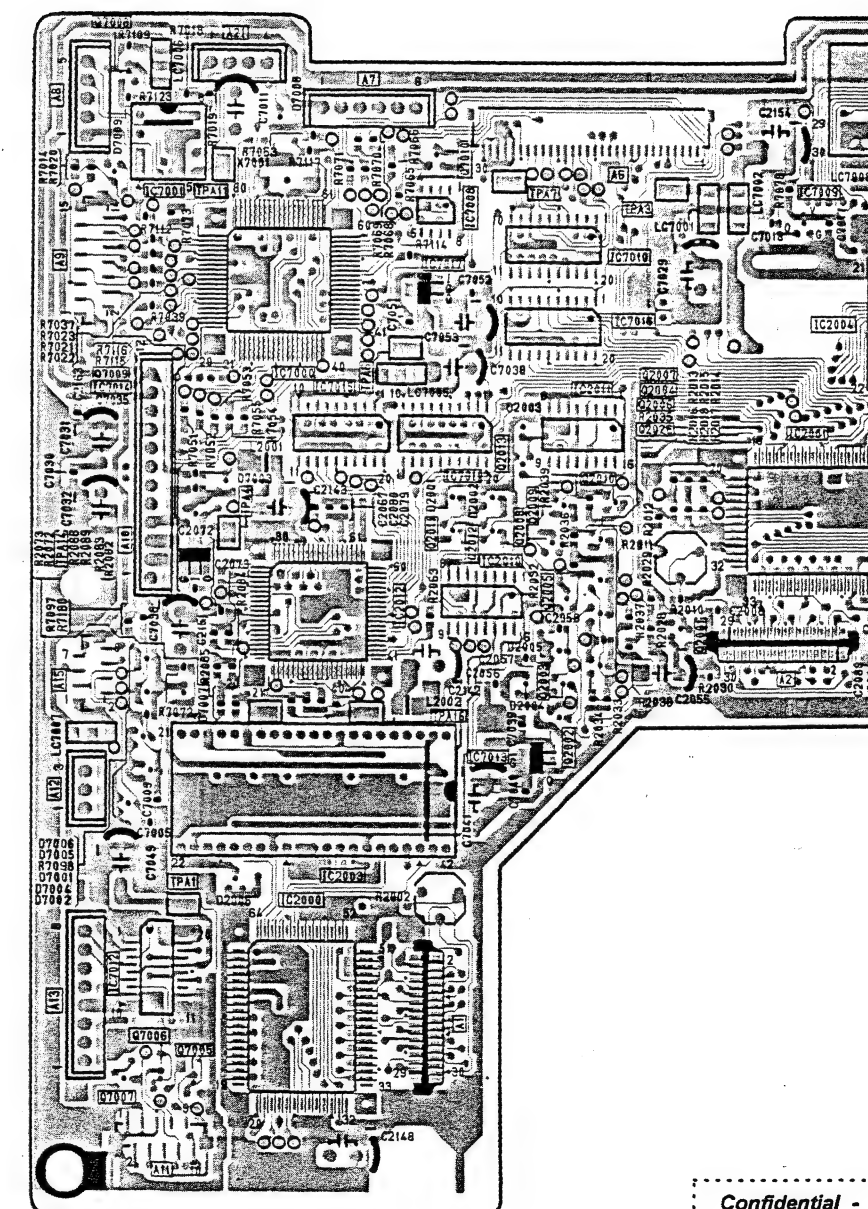
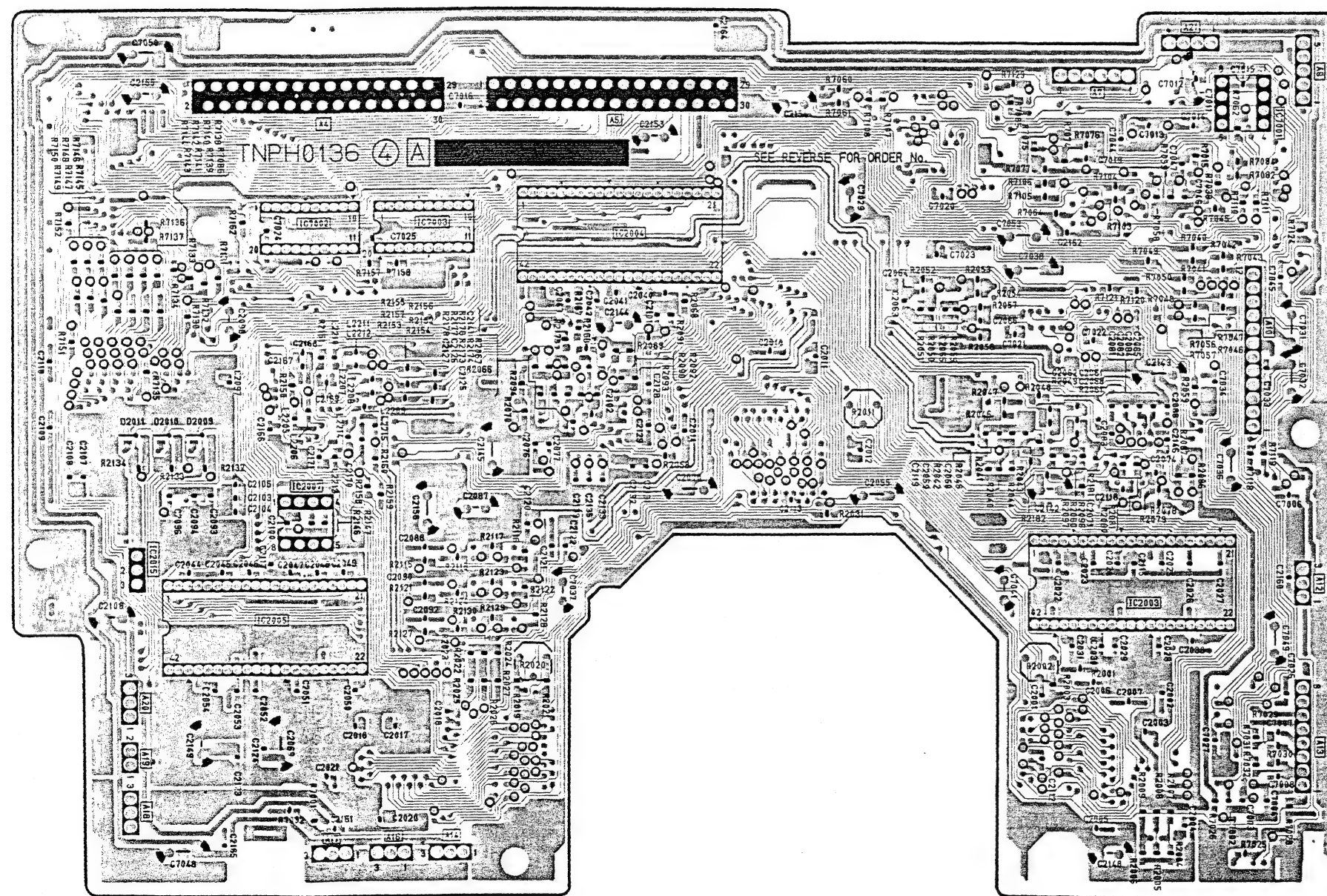


A-P.C. Board (Foil Side)	
IC	
IC2003	B-6
IC2004	D-4
IC2005	B-2
IC2007	B-2
IC7001	D-6
IC7002	D-2
IC7003	D-3

ADDRESS INFORMATION

A-P.C. Board TNPH0136AD  
(Foil Side)

A-P.C. Board TNPH0136AD  
(Component Side)



IC
IC2003
IC2004
IC2005
IC2007
IC7001
IC7002
IC7003
IC2003
IC2004
IC2005
IC2007
IC7001
IC7002
IC7003
IC2003
IC2004
IC2005
IC2007
IC7001
IC7002
IC7003

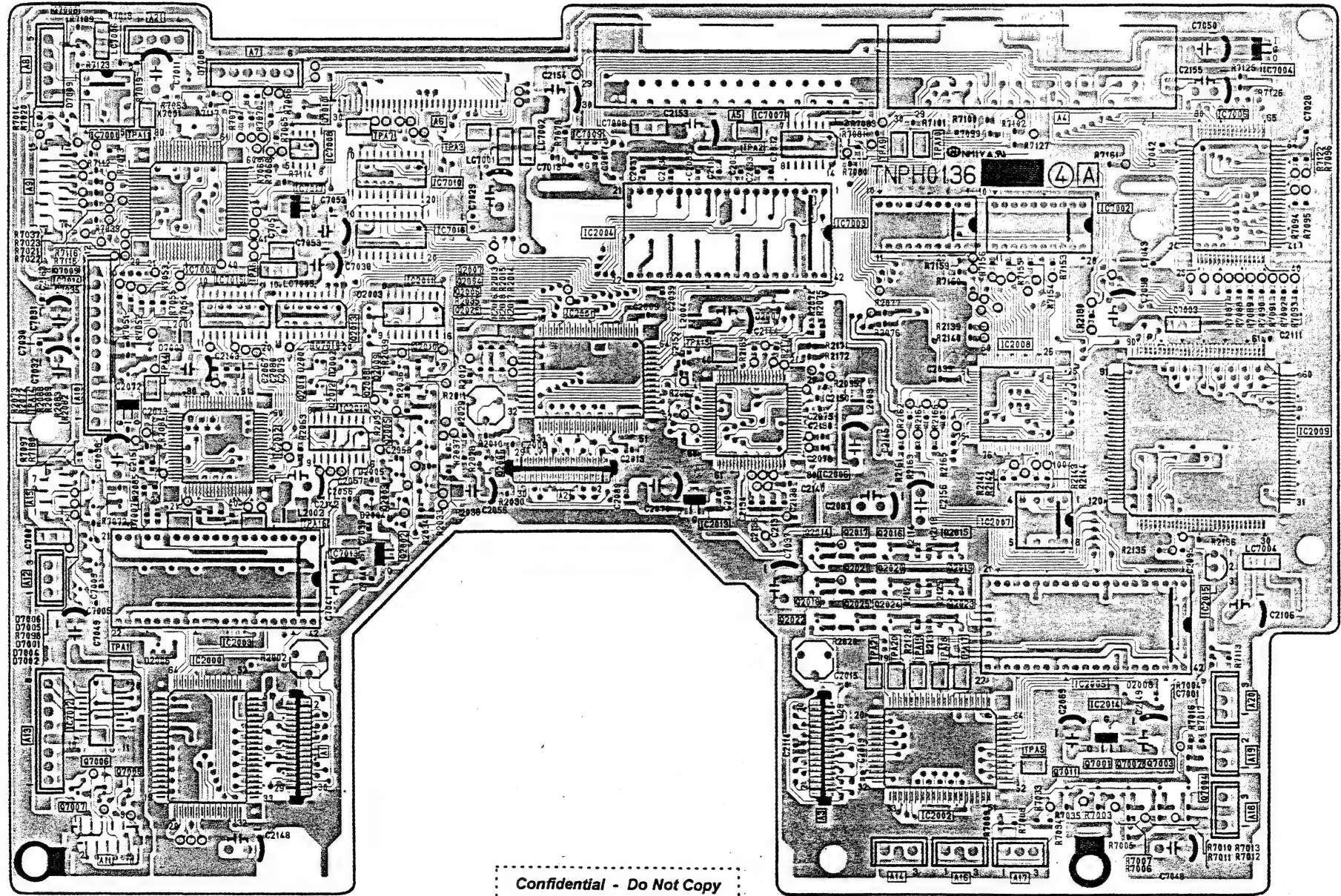
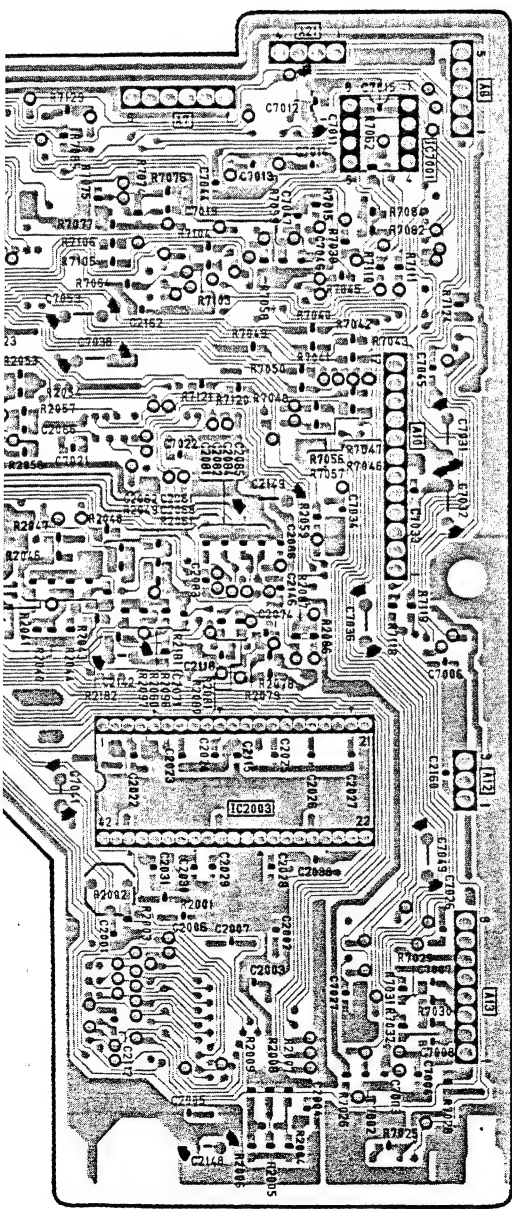
ADDRE



A-P.C. Board TNPH0136AD  
(Component Side)

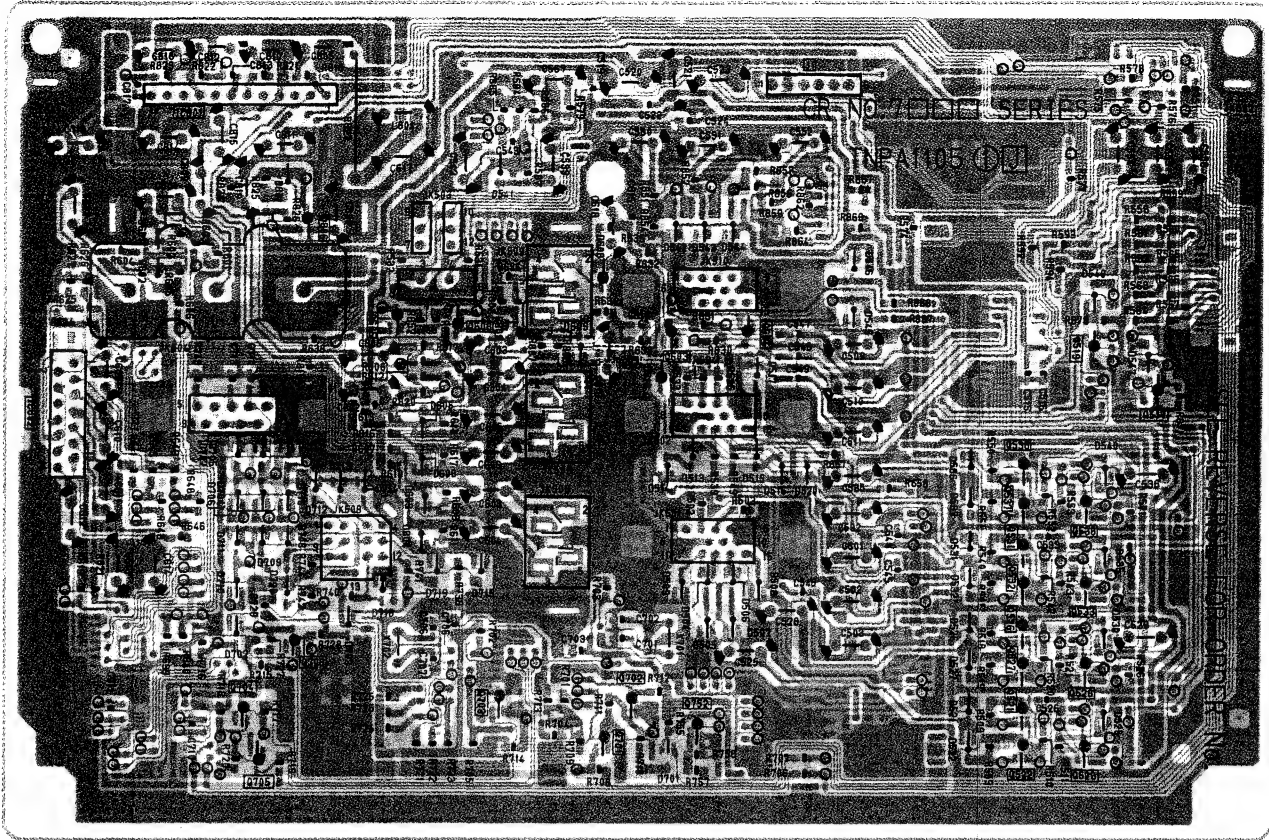
A-P.C. Board (Component Side)									
IC		IC7002		Q2003		Q2022		TP	
IC2000	B-8	IC7003	D-13	Q2004	C-10	Q2023	B-12	TPA1	B-8
IC2001	C-10	IC7004	D-11	Q2005	C-9	Q2024	B-12	TPA2	D-11
IC2002	A-12	IC7006	D-13	Q2006	C-10	Q2025	B-11	TPA3	D-10
IC2003	B-9	IC7007	D-11	Q2007	C-10	Q2026	C-10	TPA4	C-8
IC2004	D-10	IC7008	D-9	Q2008	C-9	Q7001	A-13	TPA5	A-12
IC2005	B-13	IC7009	D-10	Q2009	C-9	Q7002	A-13	TPA6	C-9
IC2006	C-11	IC7010	D-10	Q2010	C-9	Q7003	A-13	TPA7	D-9
IC2007	B-12	IC7011	C-9	Q2011	C-9	Q7004	A-13	TPA9	D-12
IC2008	C-12	IC7012	A-8	Q2012	C-9	Q7005	A-8	TPA10	D-12
IC2009	C-13	IC7013	B-9	Q2013	C-9	Q7006	A-8	TPA11	D-8
IC2010	C-9	IC7014	C-8	Q2014	B-11	Q7007	A-8	TPA14	C-8
IC2011	C-9	IC7015	C-9	Q2015	B-12	Q7008	E-8	TPA15	C-11
IC2012	C-9	IC7016	D-10	Q2016	B-12	Q7009	C-8	TPA16	B-9
IC2013	B-11	IC7017	D-9	Q2017	B-11	Q7010	D-9	TPA17	B-12
IC2014	A-13	TRANSISTOR		Q2018	B-11	Q7011	A-12	TPA18	B-12
IC2015	B-13	Q2001	C-10	Q2019	B-12			TPA19	B-12
IC7000	C-8	Q2002	B-9	Q2020	B-12			TPA20	B-12
IC7001	D-8			Q2021	B-11			TPA21	B-12

ADDRESS INFORMATION



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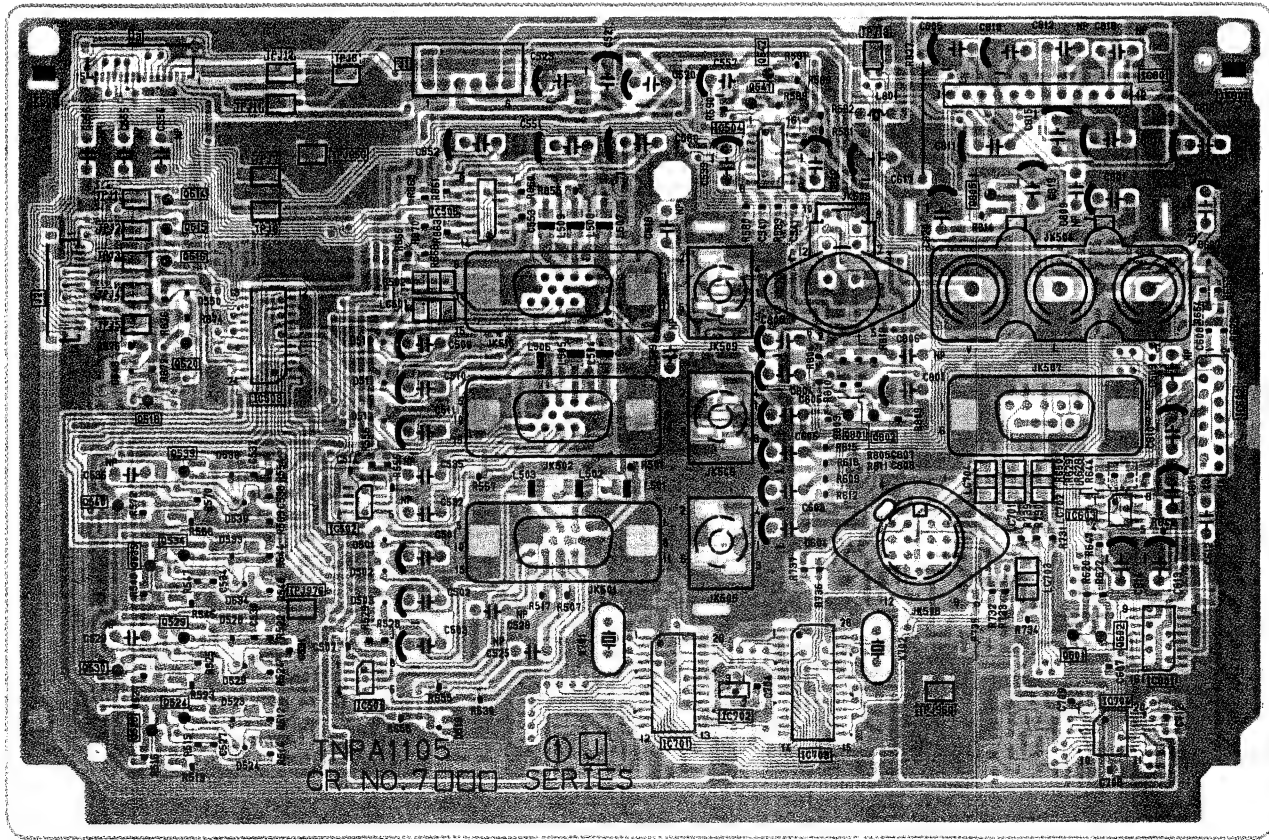
J-P.C. Board TXN/J1VHP4  
(Foil Side)



J-P.C. Board <sup>2</sup> (Foil Side)		
IC		
IC7602		E-3
IC7801		F-3
TRANSISTOR		
Q7517		E-6
Q7519		E-6
Q7521		D-6
Q7522		D-6
Q7523		D-6
Q6526		D-6
Q7527		D-6
Q7528		D-6
Q7531		E-6
Q7532		D-6
Q7533		D-6
Q7536		E-6
Q7537		E-6
Q7538		E-6
Q7603		D-4
Q7604		D-3
Q7605		E-4
Q7606		E-4
Q7701		D-5
Q7702		D-5
Q7703		D-4
Q7704		D-3
Q7705		D-3
Q7706		D-3
Q7752		D-5
Q7806		F-3

ADDRESS INFORMATION

J-P.C. Board TXN/J1VHP4  
(Component Side)

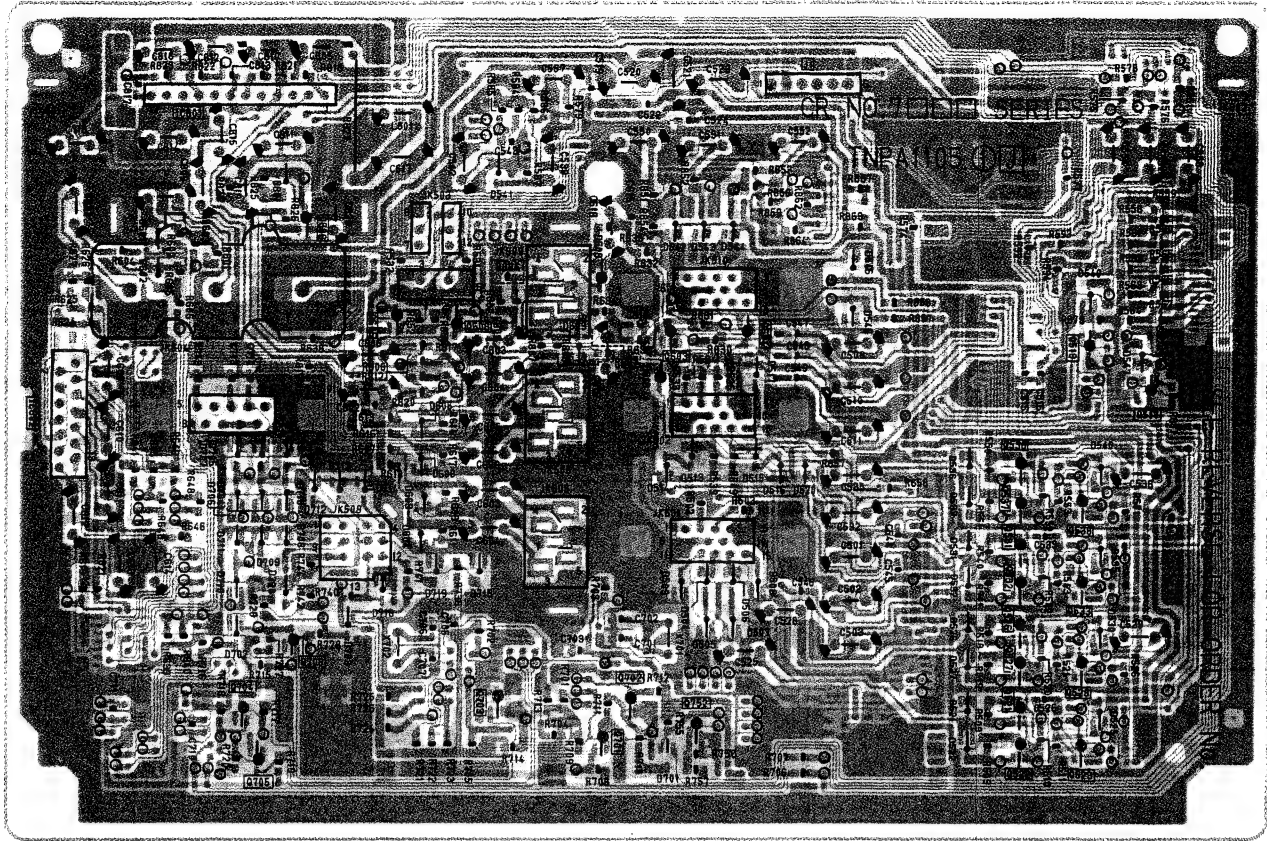


J-P.C. Board (Component Side)				
IC				
IC7501	A-4	Q7539		B-3
IC7502	B-4	Q7540		B-3
IC7503	B-3	Q7541		C-5
IC7504	C-5	Q7542		C-5
IC7505	C-4	Q7601		A-6
IC7601	A-6	Q7602		A-6
IC7602	B-7	Q7801		B-5
IC7701	A-5	Q7802		B-5
IC7702	A-5	Q7805		C-6
IC7703	A-5	TP		
IC7704	A-6	TPJ1		C-3
IC7801	C-6	TPJ2		C-3
TRANSISTOR		TPJ3		C-3
Q7514	C-3	TPJ4		B-3
Q7515	C-3	TPJ5		B-3
Q7516	C-3	TPJ6		C-3
Q7518	B-3	TPJ7		C-3
Q7520	B-3	TPJ8		C-4
Q7524	A-3	TPJ11		C-5
Q7525	A-3	TPJ12		C-3
Q7529	A-3	TPJ13		C-5
Q7530	A-3	TPJ95G		C-4
Q7534	B-3	TPJ96G		A-6
Q7535	B-3	TPJ97G		A-4

ADDRESS INFORMATION



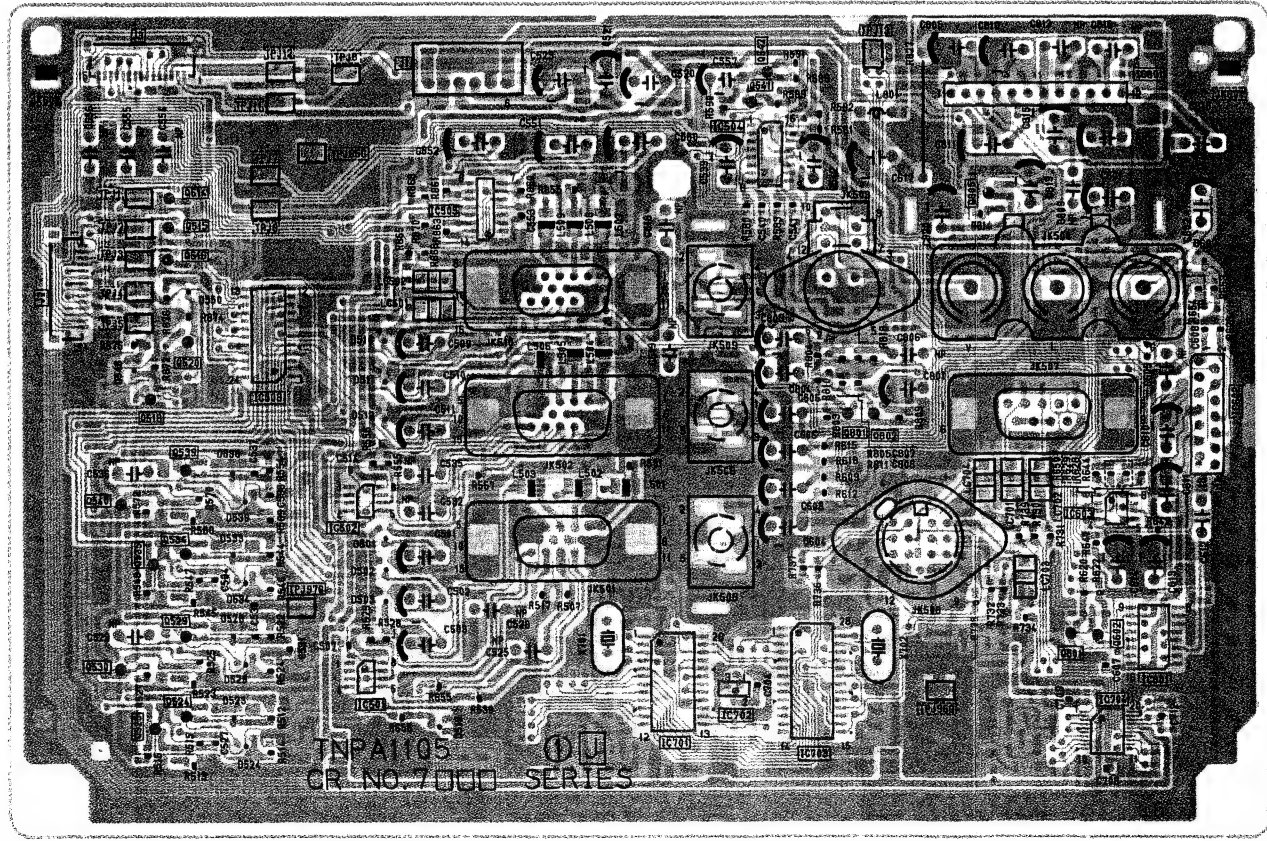
J-P.C. Board TXN/J1VHP4  
(Foil Side)



J-P.C. Board (Foil Side)		
IC		
IC7602		E-3
IC7801		F-3
TRANSISTOR		
Q7517		E-6
Q7519		E-6
Q7521		D-6
Q7522		D-6
Q7523		D-6
Q6526		D-6
Q7527		D-6
Q7528		D-6
Q7531		E-6
Q7532		D-6
Q7533		D-6
Q7536		E-6
Q7537		E-6
Q7538		E-6
Q7603		D-4
Q7604		D-3
Q7605		E-4
Q7606		E-4
Q7701		D-5
Q7702		D-5
Q7703		D-4
Q7704		D-3
Q7705		D-3
Q7706		D-3
Q7752		D-5
Q7806		F-3

ADDRESS INFORMATION

J-P.C. Board TXN/J1VHP4  
(Component Side)



J-P.C. Board (Component Side)				
IC				
IC7501	A-4	Q7539	B-3	
IC7502	B-4	Q7540	B-3	
IC7503	B-3	Q7541	C-5	
IC7504	C-5	Q7542	C-5	
IC7505	C-4	Q7601	A-6	
IC7601	A-6	Q7602	A-6	
IC7602	B-7	Q7801	B-5	
IC7701	A-5	Q7802	B-5	
IC7702	A-5	Q7805	C-6	
IC7703	A-5	TP		
IC7704	A-6	TPJ1	C-3	
IC7801	C-6	TPJ2	C-3	
TRANSISTOR		TPJ3	C-3	
Q7514	C-3	TPJ4	B-3	
Q7515	C-3	TPJ5	B-3	
Q7516	C-3	TPJ6	C-3	
Q7518	B-3	TPJ7	C-3	
Q7520	B-3	TPJ8	C-4	
Q7524	A-3	TPJ11	C-5	
Q7525	A-3	TPJ12	C-3	
Q7529	A-3	TPJ13	C-5	
Q7530	A-3	TPJ95G	C-4	
Q7534	B-3	TPJ96G	A-6	
Q7535	B-3	TPJ97G	A-4	

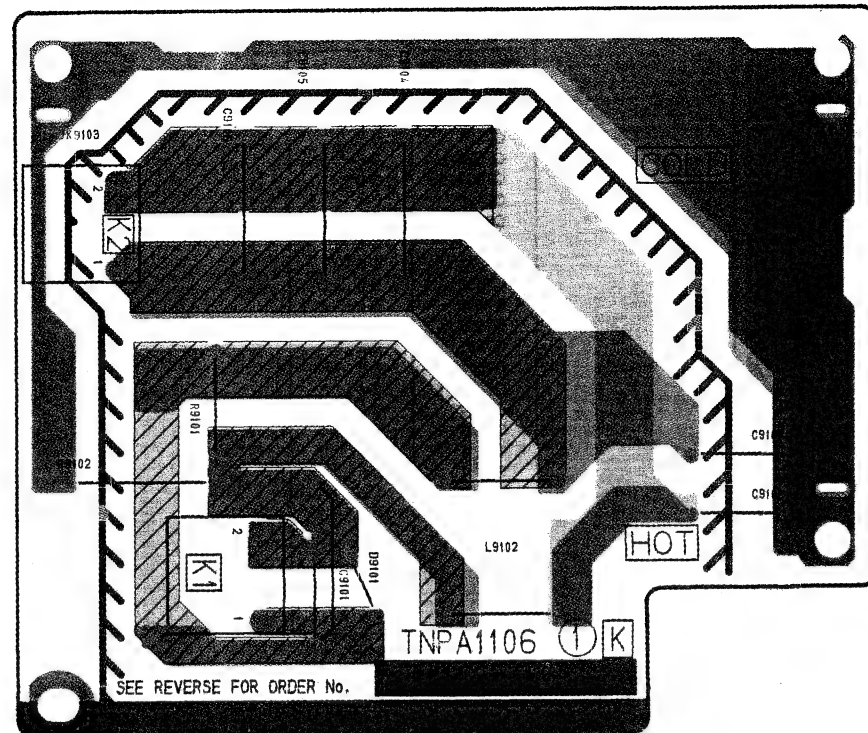
ADDRESS INFORMATION

**K-P.C. Board TNPA1106AA  
(Foil Side)**

F

E

D

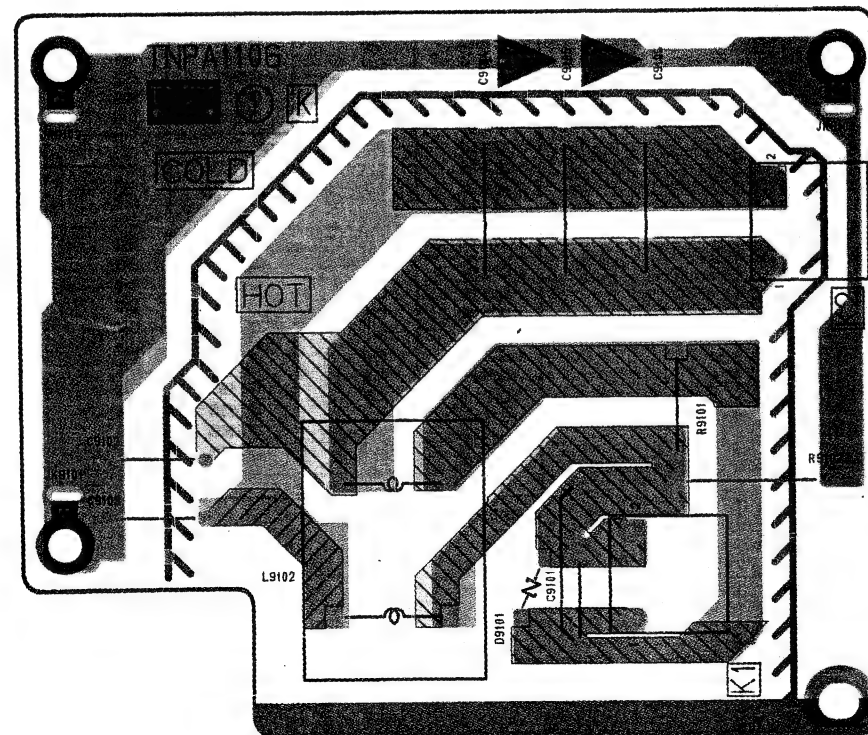


**K-P.C. Board TNPA1106AA  
(Component Side)**

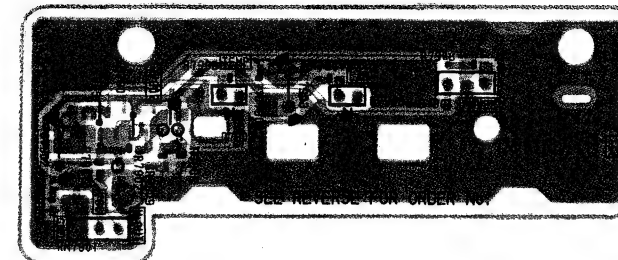
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B

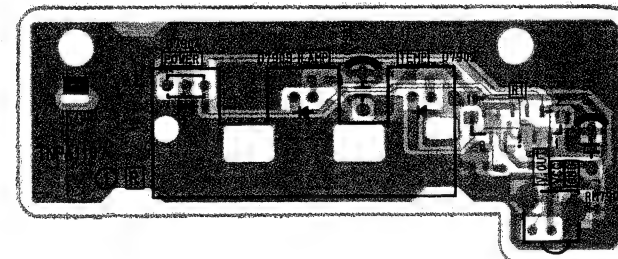
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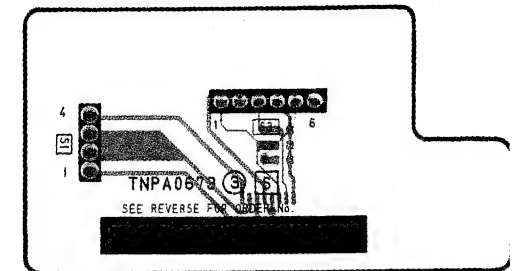
**R-P.C. Board TNPA1107AA  
(Foil Side)**



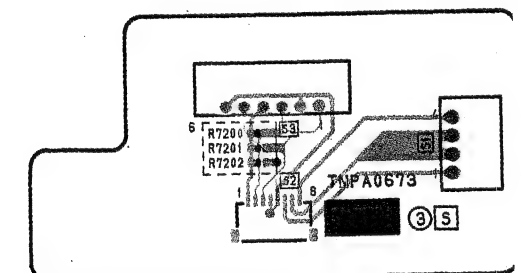
**R-P.C. Board TNPA1107AA  
(Component Side)**



**S-P.C. Board TNPA0673AA  
(Foil Side)**

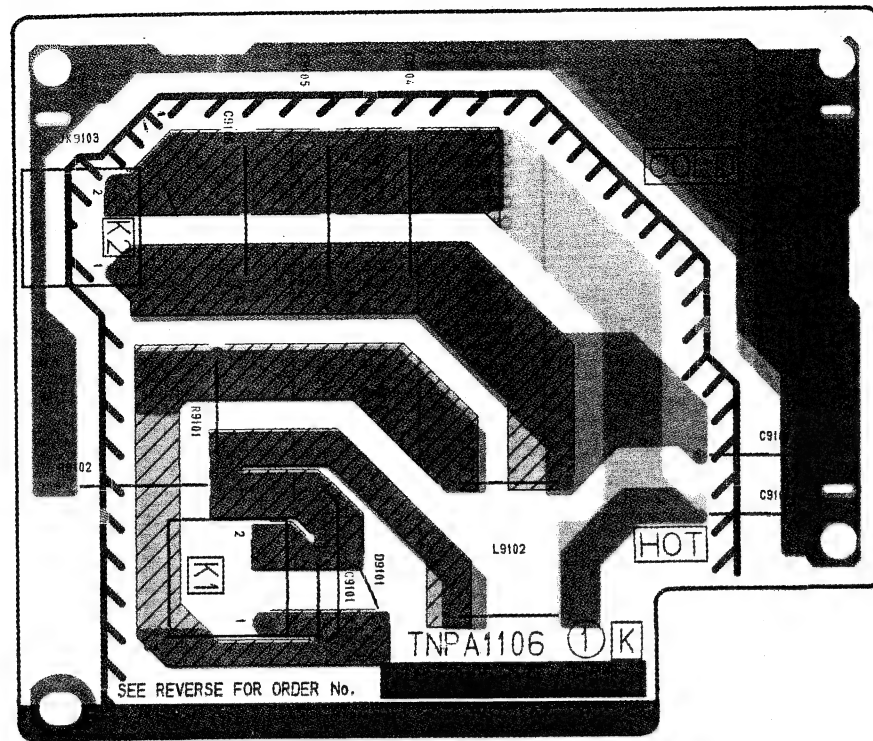


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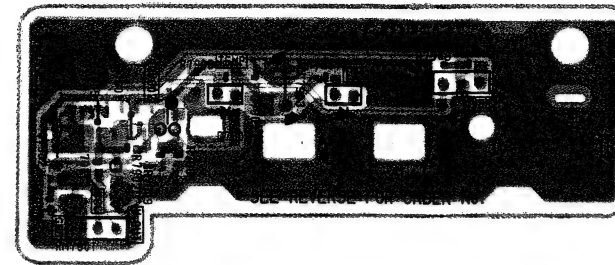




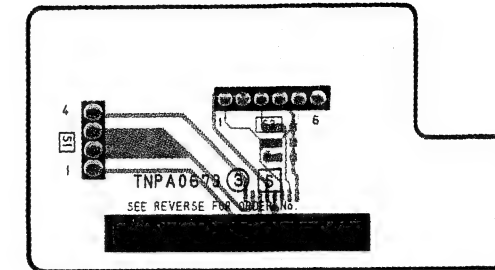
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**(Foil Side)**



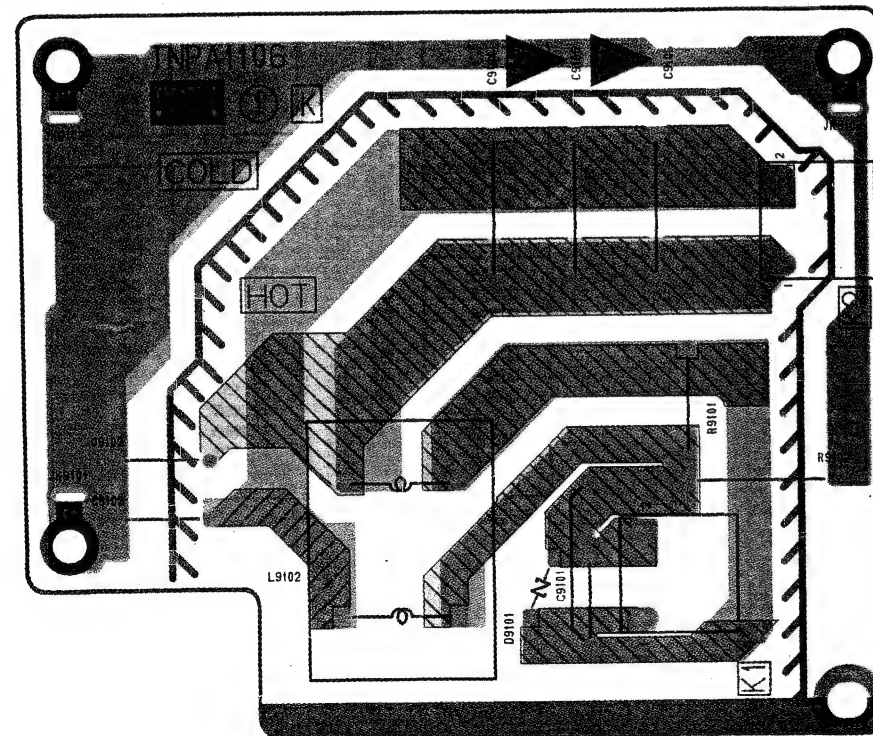
**R-P.C. Board TNPA1107AA**  
**(Foil Side)**



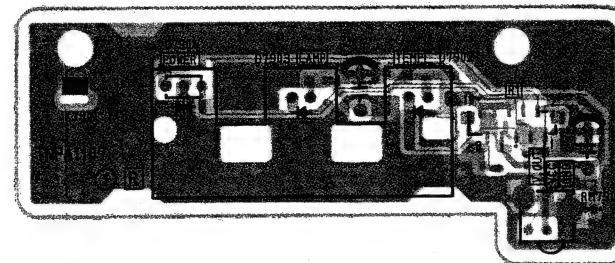
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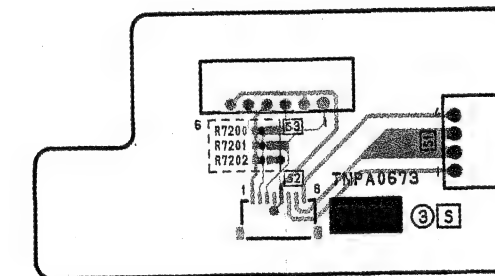
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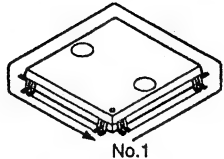
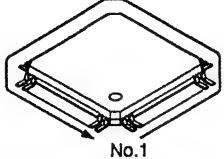
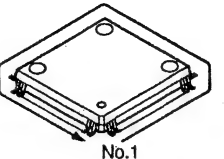
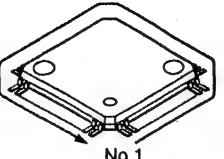
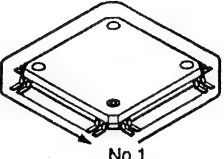
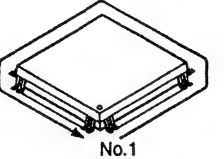
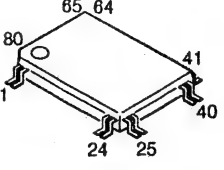
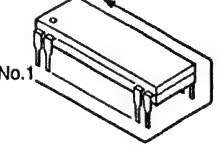
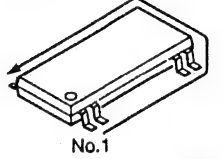
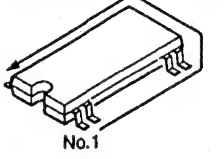
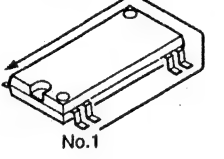
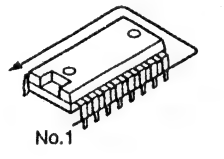
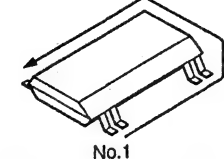
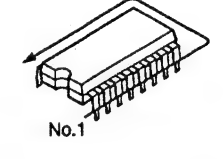
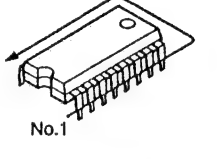
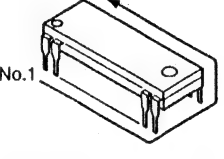
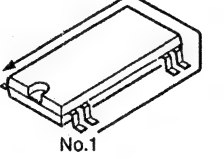
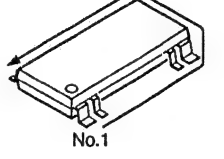
**R-P.C. Board TNPA1107AA**  
**(Component Side)**

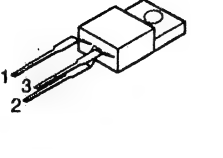
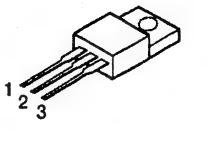
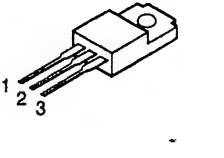
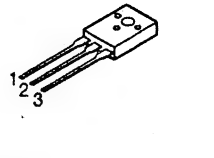
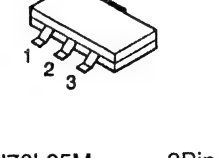
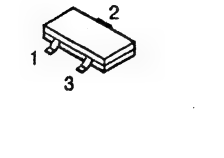
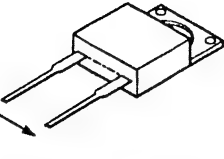
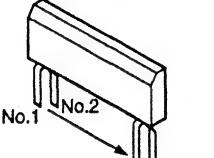
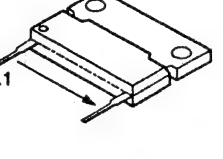
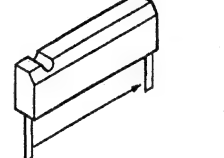
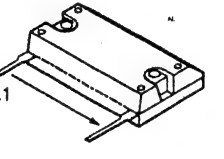
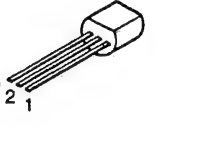
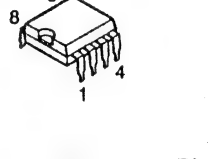

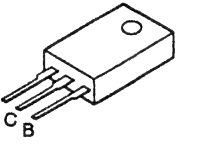
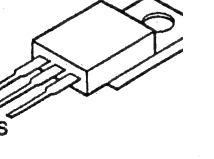


**S-P.C. Board TNPA0673AA  
(Component Side)**

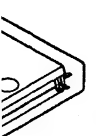
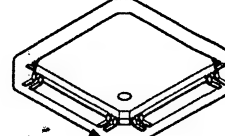
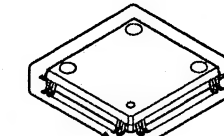
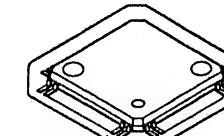
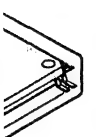
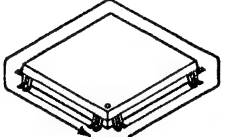
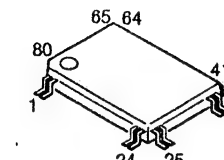
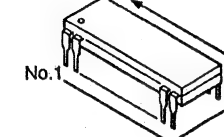
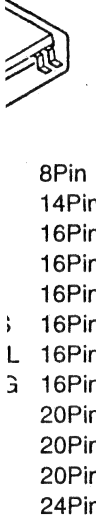
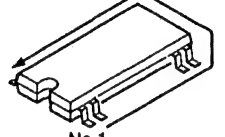
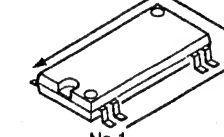
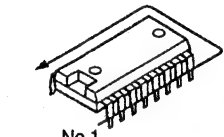
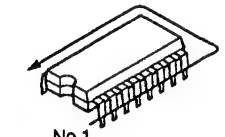
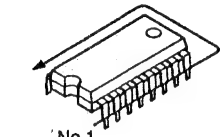
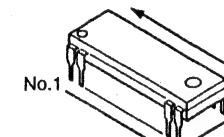

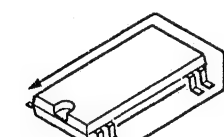


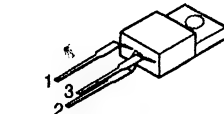
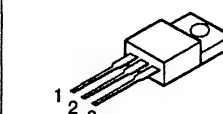
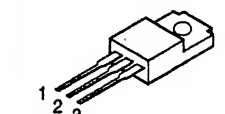
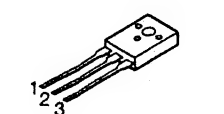
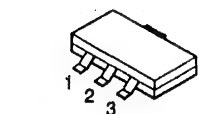

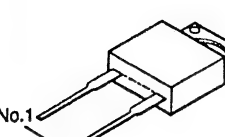
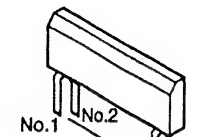
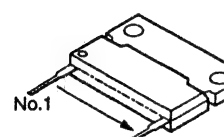
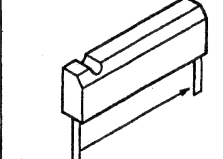
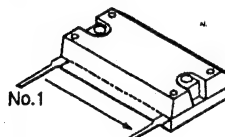
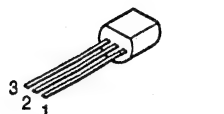
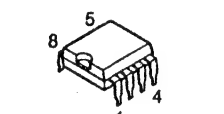
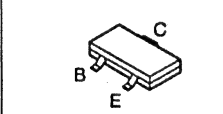
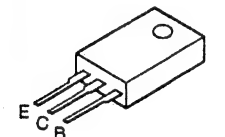
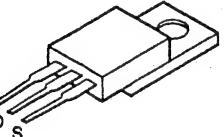
# Terminal Guide of IC's and Transistors

 <p>No.1</p> <p>TVRJ159 80Pin TVRJ102A 80Pin TVSA0211 80Pin</p>	 <p>No.1</p> <p>MN8236 44Pin ET1012T0A 64Pin</p>	 <p>No.1</p> <p>ET7010K0A 120Pin</p>	 <p>No.1</p> <p>ET5010S0B 80Pin</p>
 <p>No.1</p> <p>TVSA0132 160Pin</p>	 <p>No.1</p> <p>TVSA0134 100Pin</p>	 <p>80 65 64 41 40 24 25</p> <p>UPD65636G075 80Pin</p>	 <p>No.1</p> <p>M52346SP 20Pin</p>
 <p>No.1</p> <p>M5197BFP 8Pin TLC2933IPWL 14Pin FA5331M 16Pin MC14052BF 16Pin MC14053BF 16Pin SN74HC244NS 16Pin TC74HC4053AL 16Pin UPD74HC4538G 16Pin UPD4721GS 20Pin 74HCT244NSL 20Pin M62393FP 20Pin BA7657F 24Pin</p>	 <p>No.1</p> <p>TC74HC08AF 14Pin TC74AC163F 16Pin TC74AC240FEL 20Pin TC74AC244F 20Pin</p>	 <p>No.1</p> <p>TWM700015010 24Pin TWM700016010 24Pin</p>	 <p>No.1</p> <p>ET6010N0B 42Pin</p>
 <p>No.1</p> <p>24LC21T-I/SN 8Pin MN4778AS 28Pin</p>	 <p>No.1</p> <p>TDA4566 18Pin M52346SP 20Pin AN93B06K 28Pin TA8772AN 30Pin TA8880BN 64Pin</p>	 <p>No.1</p> <p>M35042-089SP 20Pin M35042-090SP 20Pin</p>	 <p>No.1</p> <p>M66256GP 24Pin</p>
		 <p>No.1</p> <p>TDA8703T-T 24Pin</p>	 <p>No.1</p> <p>LB1831M 20Pin</p>

 <p>1 3 2</p> <p>SE005N 3Pin SE012N 3Pin</p>	 <p>1 2 3</p> <p>AN78M20 3Pin</p>	 <p>1 2 3</p> <p>UPC24M05AHF 3Pin</p>	 <p>1 2 3</p> <p>AN78N05 3Pin AN78N09 3Pin</p>
 <p>1 2 3</p> <p>AN78L05M 3Pin AN78L15M 3Pin AN79L05M 3Pin</p>	 <p>1 2 3</p> <p>MN1382R 3Pin</p>	 <p>No.1</p> <p>SI-3050CA 5Pin SI-3120CA 5Pin STRS6707F953 9Pin</p>	 <p>No.1 No.2</p> <p>M51132L 14Pin NJM2229M 16Pin</p>
 <p>No.1</p> <p>AN7147N 12Pin</p>	 <p>No.1</p> <p>XRA15218F 8Pin</p>	 <p>No.1</p> <p>STR9005F308A 5Pin</p>	 <p>3 2 1</p> <p>LM385Z-1.2 3Pin</p>
 <p>8 5 1 4</p> <p>24LC16BIP24 8Pin TVRJ090-1 8Pin TVRJ091-1 8Pin TVRJ093 8Pin</p>	 <p>B C E</p> <p>2SA1462 2SB709AR 2SC2480S 2SD601AR 2SD601AQ 2SD602A-R</p>	 <p>E C B</p> <p>2SA1096A 2SC2497A</p>	 <p>G D S</p> <p>2SK1938</p>

# Guide of IC's and Transistors

 80Pin 80Pin 80Pin	 No.1 MN8236 44Pin ET1012T0A 64Pin	 No.1 ET7010K0A 120Pin	 No.1 ET5010S0B 80Pin
 160Pin	 No.1 TVSA0134 100Pin	 85 64 80 41 24 25 No.1 UPD65636G075 80Pin	 No.1 M52346SP 20Pin
 8Pin 14Pin 16Pin 16Pin 16Pin 16Pin 16Pin 16Pin 20Pin 20Pin 20Pin 24Pin	 No.1 TC74HC08AF 14Pin TC74AC163F 16Pin TC74AC240FEL 20Pin TC74AC244F 20Pin	 No.1 TWM700015010 24Pin TWM700016010 24Pin	 No.1 ET6010N0B 42Pin
 No.1 TDA4566 18Pin M52346SP 20Pin AN93B06K 28Pin TA8772AN 30Pin TA8880BN 64Pin	 No.1 M35042-089SP 20Pin M35042-090SP 20Pin	 No.1 M66256GP 24Pin	
 8Pin 28Pin	 No.1 TDA8703T-T 24Pin LB1831M 20Pin		

 1 3 2 SE005N 3Pin SE012N 3Pin	 1 2 3 AN78M20 3Pin	 1 2 3 UPC24M05AHF 3Pin	 1 2 3 AN78N05 3Pin AN78N09 3Pin
 1 2 3 AN78L05M 3Pin AN78L15M 3Pin AN79L05M 3Pin	 1 2 3 MN1382R 3Pin	 No.1 SI-3050CA 5Pin SI-3120CA 5Pin STRS6707F953 9Pin	 No.1 No.2 M51132L 14Pin NJM2229M 16Pin
 No.1 AN7147N 12Pin	 No.1 XRA15218F 8Pin	 No.1 STR9005F308A 5Pin	 3 2 1 LM385Z-1.2 3Pin
 8 5 1 4 24LC16BIPA24 8Pin TVRJ090-1 8Pin TVRJ091-1 8Pin TVRJ093 8Pin	 B C E 2SA1462 2SB709AR 2SC2480S 2SD601AR 2SD601AQ 2SD602A-R	 E C B 2SA1096A 2SC2497A	 G D S 2SK1938

■ Pin Description of IC7000 (TVRJ159: Microcomputer)

Pin No.	Port	I/O	Name	Stand-BY Function
1	P15/AN15	In Init	Active	EEPROM Initialize
2	P16/AN16	In Sdown	Active	Power Voltage Check
3	P17/AN17	In S-Video in	Active	S-Video Detection (H: S-Video, L: Video)
4	AVSS	AVSS	—	A/D Converter GND
5	P130/ANO0	Out Mute		Audio Mute (H: Mute, L: Mute Off)
6	P131/ANO1	Out RGB Mute		Video Mute
7	AVREF1	5V	—	Reference Voltage of D/A Converter
8	P70/SI2/R XD	In RXD	Active	RS232C RXD
9	P71/SO2/TXD	Out TXD	Active	RS232C TXD
10	P72/SCK1	In (GND)	—	Not Use
11	P20SI1	In IICC	Active	External Control of
12	P21/SO1	Out OSD DATA	Active	OSD (DATA)
13	P22/SCK1	Out OSD CLK	Active	OSD (CLOCK)
14	P23/STB	Out STB 1	Active	OSD (STB 1)
15	P24/BUSY	Out STB 2	Active	OSD (STB 2)
16	P25/SIO/SIB	In	—	Not Use
17	P26/SO0/SB1	Out SDA	Active	IIC Bus (SDA)
18	P27/SCK0	Out SCL	Active	IIC Bus (SCL)
19	P40/AD0	Out AL 1	L	Load (AL 1)
20	P41/AD1	Out AL 2	L	Load (AL 2)
21	P42/AD2	Out ET7010	L	Load (ET7010)
22	P43/AD3	Out AL 3	L	Load (AL 3)
23	P44/AD4	Out KAME-LSI	L	Load (KAME-LSI)
24	P45/AD5	Out CLK	L	CLK for Digital IC
25	P46/AD6	Out DATA	L	DATA for Digital IC
26	P47/AD7	Out NC47	—	Not Use
27	P50/A8	Out MSW	L	Thin Control (H: On, L: Off)
28	P51/A9	Out POWER LED	Active	Power LED (H: SET, L: Stand-by)
29	P52/A10	Out LAMP LED	Active	Lamp Condition LED (H: On, L: Off)
30	P53/A11	Out THERMO LED	Active	Temperature Condition LED (H: On, L: Off)
31	P54/A12	Out ZOOM MOTOR 1	L	Control Zoom Motor 1
32	P55/A13	Out ZOOM MOTOR 2	L	Control Zoom Motor 2
33	VSS	GND	—	GND
34	P56/A14	Out FOCUS MOTOR 1	L	Control Focus Motor 1
35	P57/A15	Out FOCUS MOTOR 2	L	Control Focus Motor 2
36	P60	In STATE 1		V Signal Detection
37	P61	In STATE 2		H Signal Detection
38	P62	In HPOL		H Signal Polarity Detection
39	P63	In VPOL		V Signal Polarity Detection
40	P64	Out DAC CLOCK	L	DAC (Clock)
41	P65	Out DAC DATA	L	DAC (Data)

Pin No.	Port	I/O	Name	Stand-BY Function
42	P66	Out DAC LOAD 1	L	DAC (Load)
43	P67	Out DAC LOAD 2	L	DAC (Load)
44	P30/TO0	Out FAN ON/OFF	Active	Fan Condition (H: Normal, L: Abnormal)
45	P31/TO1	Out HC	Active	H Pulse Check
46	P32/TO2	Out FAN CTL	Active	Control FAN Speed
47	P33/TI1	In HPOL	Active	H Pulse input (Negative Polarity)
48	P34/TI2	Out STBY/MAIN	L	Power Control (H: On, L: Off)
49	P35/PCL	Out BLST ON	L	Ballast Power Control (H: On, L: Off)
50	P36/BUZ	In LAMP ON/OFF	Active	Lamp On
51	P37	In FAN SENCE	Active	FAN Stop
52	P120/RTP0	Out VID/RGB	I	Video/RGB Selector (H: Video, L: RGB)
53	P120/RTP1	Out RGB1/RGB 2	I	RGB1/RGB2 Selector (H: RGB1, L: RGB2)
54	P120/RTP2	Out RGB1/Other	I	RGB1/Other Selector (H: RGB1, L: Other)
55	P123/RTP3	Out NC123		Not Use
56	P124/RTP4	Out SWB		Video System Selector 1
57	P125/RTP5	Out SWA		Video System Selector 2
58	P126/RTP6	Out SECAM		Video System Selector 3
59	P127/RTP7	Out PAL. SECAM		Video System Selector 4
60	REST	SYSTEM RESET	—	System Reset
61	P00/INTP0/TI00	In POWER SENSE	—	Main Power Sense
62	P01/INTP1/TI01	In HC. IN	Active	H Pulse Check
63	P02/INTP2	In VPOL	—	V Pulse Input (Negative Polarity)
64	P03/INTP3	In R. COM IN	Active	Remote Control Input (Negative Polarity)
65	P04/INTP4	In ZOOM SENSE 1		Zoom Sense 1
66	P05/INTP5	In ZOOM SENSE 2		Zoom Sense 2
67	P06/INTP6	In FOCUS SENSE 1		Focus Sense 1
68	Vdd	5V	—	(+) 5V
69	X2	5MHz	Active	System Clock
70	X1	In 5MHz	Active	System Clock
71	Vpp	GND	—	Program Writing Control
72	XT2	OPEN	—	Sub-system Clock
73	P07/XT1	In FOCUS SENSE 2	—	Focus Sense 2
74	Avdd	5V	—	Power for A/D Converter
75	AVref0	In 5V	—	Reference Voltage of A/D Converter
76	P10/ANI0	In Key SCAN 1	—	Key Scan 1
77	P11/ANI1	In Key SCAN 2	Active	Key Scan 2
78	P12/ANI2	In Key SCAN 3	Active	Key Scan 3
79	P13/ANI3	In Key SCAN 4	Active	Key Scan 4
80	P14/ANI4	In THERMO SENS	Active	Temperature Sensor Input



	I/O	Name	Stand-BY Function
5	In Init	Active	EEPROM Initialize
3	In Sdown	Active	Power Voltage Check
7	In S-Video in	Active	S-Video Detection (H: S-Video, L: Video)
	AVSS	—	A/D Converter GND
0	Out Mute		Audio Mute (H: Mute, L: Mute Off)
1	Out RGB Mute		Video Mute
	5V	—	Reference Voltage of D/A Converter
4D	In RXD	Active	RS232C RXD
4D	Out TXD	Active	RS232C TXD
I	In (GND)	—	Not Use
	In IICC	Active	External Control of
	Out OSD DATA	Active	OSD (DATA)
I	Out OSD CLK	Active	OSD (CLOCK)
	Out STB 1	Active	OSD (STB 1)
7	Out STB 2	Active	OSD (STB 2)
B	In	—	Not Use
31	Out SDA	Active	IIC Bus (SDA)
)	Out SCL	Active	IIC Bus (SCL)
	Out AL 1	L	Load (AL 1)
	Out AL 2	L	Load (AL 2)
	Out ET7010	L	Load (ET7010)
	Out AL 3	L	Load (AL 3)
	Out KAME-LSI	L	Load (KAME-LSI)
	Out CLK	L	CLK for Digital IC
	Out DATA	L	DATA for Digital IC
	Out NC47	—	Not Use
	Out MSW	L	Thin Control (H: On, L: Off)
	Out POWER LED	Active	Power LED (H: SET, L: Stand-by)
	Out LAMP LED	Active	Lamp Condition LED (H: On, L: Off)
	Out THERMO LED	Active	Temperature Condition LED (H: On, L: Off)
	Out ZOOM MOTOR 1	L	Control Zoom Motor 1
	Out ZOOM MOTOR 2	L	Control Zoom Motor 2
	GND	—	GND
	Out FOCUS MOTOR 1	L	Control Focus Motor 1
	Out FOCUS MOTOR 2	L	Control Focus Motor 2
	In STATE 1		V Signal Detection
	In STATE 2		H Signal Detection
	In HPOL		H Signal Polarity Detection
	In VPOL		V Signal Polarity Detection
	Out DAC CLOCK	L	DAC (Clock)
	Out DAC DATA	L	DAC (Data)

Pin No.	Port	I/O	Name	Stand-BY Function
42	P66	Out DAC LOAD 1	L	DAC (Load)
43	P67	Out DAC LOAD 2	L	DAC (Load)
44	P30/TO0	Out FAN ON/OFF	Active	Fan Condition (H: Normal, L: Abnormal)
45	P31/TO1	Out HC	Active	H Pulse Check
46	P32/TO2	Out FAN CTL	Active	Control FAN Speed
47	P33/TI1	In HPOL	Active	H Pulse input (Negative Polarity)
48	P34/TI2	Out STBY/MAIN	L	Power Control (H: On, L: Off)
49	P35/PCL	Out BLST ON	L	Ballast Power Control (H: On, L: Off)
50	P36/BUZ	In LAMP ON/OFF	Active	Lamp On
51	P37	In FAN SENCE	Active	FAN Stop
52	P120/RTP0	Out VID/RGB	I	Video/RGB Selector (H: Video, L: RGB)
53	P120/RTP1	Out RGB1/RGB 2	I	RGB1/RGB2 Selector (H: RGB1, L: RGB2)
54	P120/RTP2	Out RGB1/Other	I	RGB1/Other Selector (H: RGB1, L: Other)
55	P123/RTP3	Out NC123		Not Use
56	P124/RTP4	Out SWB		Video System Selector 1
57	P125/RTP5	Out SWA		Video System Selector 2
58	P126/RTP6	Out SECAM		Video System Selector 3
59	P127/RTP7	Out PAL. SECAM		Video System Selector 4
60	REST	SYSTEM RESET	—	System Reset
61	P00/INTP0/TI00	In POWER SENSE	—	Main Power Sense
62	P01/INTP1/TI01	In HC. IN	Active	H Pulse Check
63	P02/INTP2	In VPOL	—	V Pulse Input (Negative Polarity)
64	P03/INTP3	In R. COM IN	Active	Remote Control Input (Negative Polarity)
65	P04/INTP4	In ZOOM SENSE 1		Zoom Sense 1
66	P05/INTP5	In ZOOM SENSE 2		Zoom Sense 2
67	P06/INTP6	In FOCUS SENSE 1		Focus Sense 1
68	Vdd	5V	—	(+) 5V
69	X2	5MHz	Active	System Clock
70	X1	In 5MHz	Active	System Clock
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72	XT2	OPEN	—	Sub-system Clock
73	P07/XT1	In FOCUS SENSE 2	—	Focus Sense 2
74	Avdd	5V	—	Power for A/D Converter
75	AVref0	In 5V	—	Reference Voltage of A/D Converter
76	P10/ANI0	In Key SCAN 1	—	Key Scan 1
77	P11/ANI1	In Key SCAN 2	Active	Key Scan 2
78	P12/ANI2	In Key SCAN 3	Active	Key Scan 3
79	P13/ANI3	In Key SCAN 4	Active	Key Scan 4
80	P14/ANI4	In THERMO SENS	Active	Temperature Senser Input







Schematic Diagram for Model

PJ820

Important Safety Notice

Components identified by the International symbol  $\Delta$  have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes:

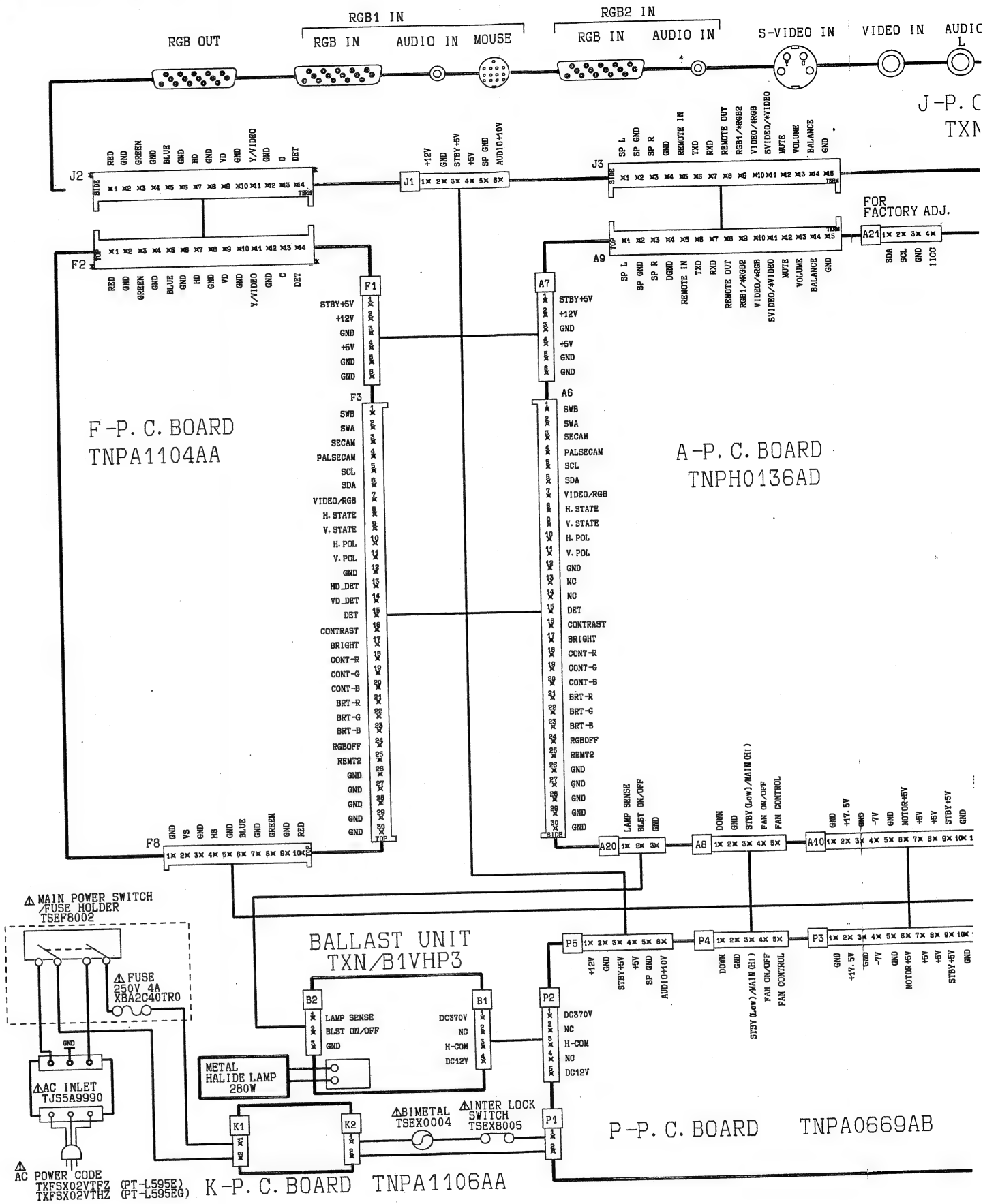
1. **Resistor**  
All resistors are carbon 1/4W resistor, unless marked as follows:  
Unit of resistance is OHM [ $\Omega$ ] (K=1,000 M=1,000,000).
- |                           |                           |
|---------------------------|---------------------------|
| $\bigcirc$ : Nonflammable | $\boxtimes$ : Metal Oxide |
| $\triangle$ : Solid       | $\odot$ : Metal Film      |
| $\boxplus$ : Wire Wound   | $\otimes$ : Fuse          |
2. **Capacitor**  
All capacitors are ceramic 50V capacitor, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise noted.
- |   |   |
|---|---|
| $\otimes$ : Temperature Compensation                  | $\text{---}\text{  }\text{---}$ : Electrolytic    |
| $\text{---}\text{  }\text{---}$ : Polyester           | $\text{---}\text{  }\text{---}$ : Bipolar         |
| $\text{---}\text{  }\text{---}$ : Metalized Polyester | $\text{---}\text{  }\text{---}$ : Dipped Tantalum |
| $\text{---}\text{  }\text{---}$ : Polypropylene       | $\text{---}\text{  }\text{---}$ : Z-Type          |
3. **Coil**  
Unit of inductance is  $\mu$ H, unless otherwise noted.
4. **Test Point**  
 $\bullet$  : Test Point position
5. **Voltage Measurement**  
Voltage is measured by an electronic voltmeter receiving rainbow color bar signal when all customer's controls are set to the maximum position.
6. This schematic diagram is the latest at the time of printing and subject to change without notice.
7.  Positive voltage lines  
 Video signal  
 S-Video signal  
 V or H output signal  
 R.G.B. signal  
 Audio signal

**Note:**  
The power Circuit board contains a circuit area which uses separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

PRECAUTIONS

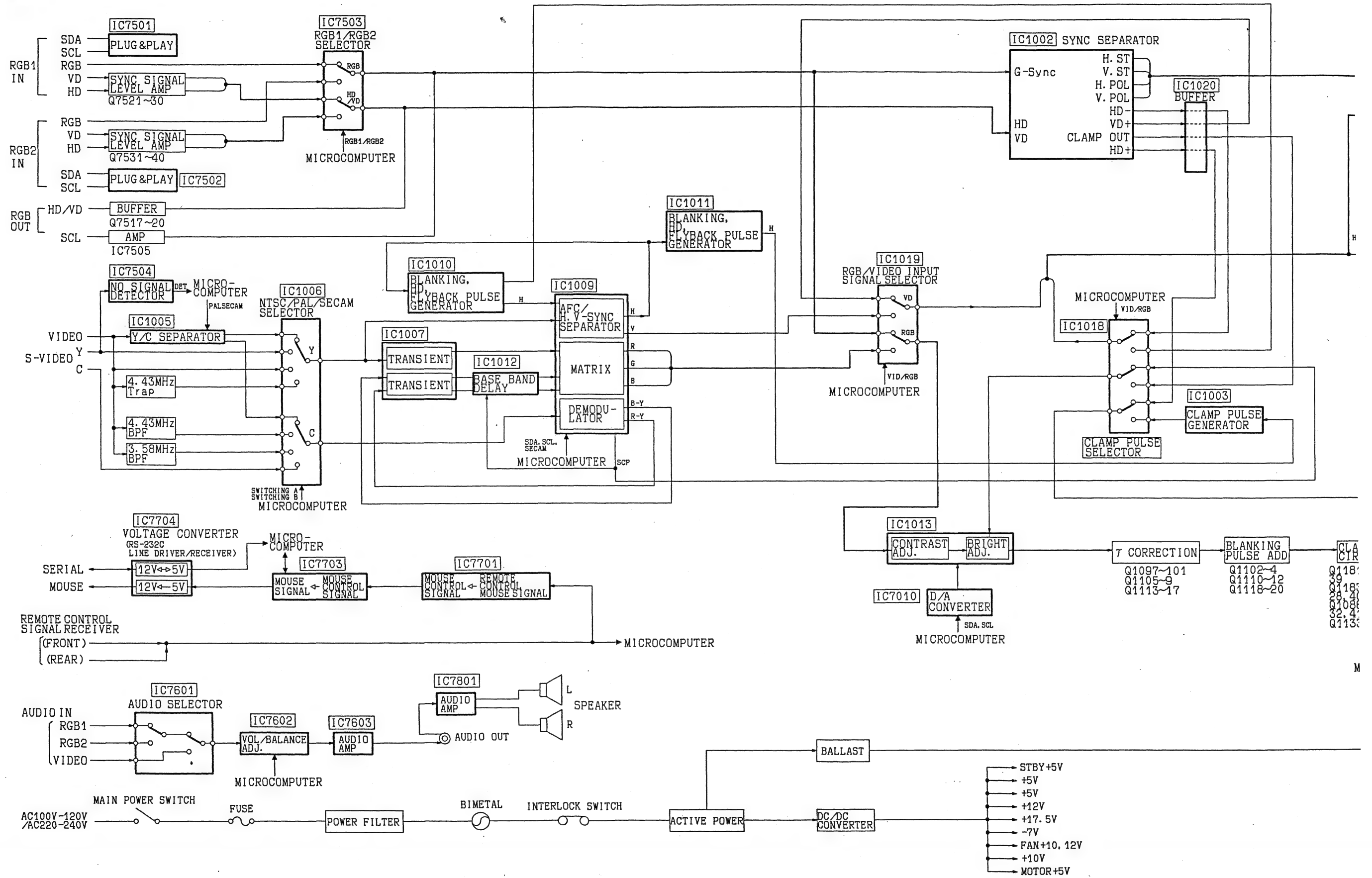
- Do not touch the hot part or the hot and cold parts at the same time or you may receive a shock.
- Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow. Connect the ground of instruments to the ground connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

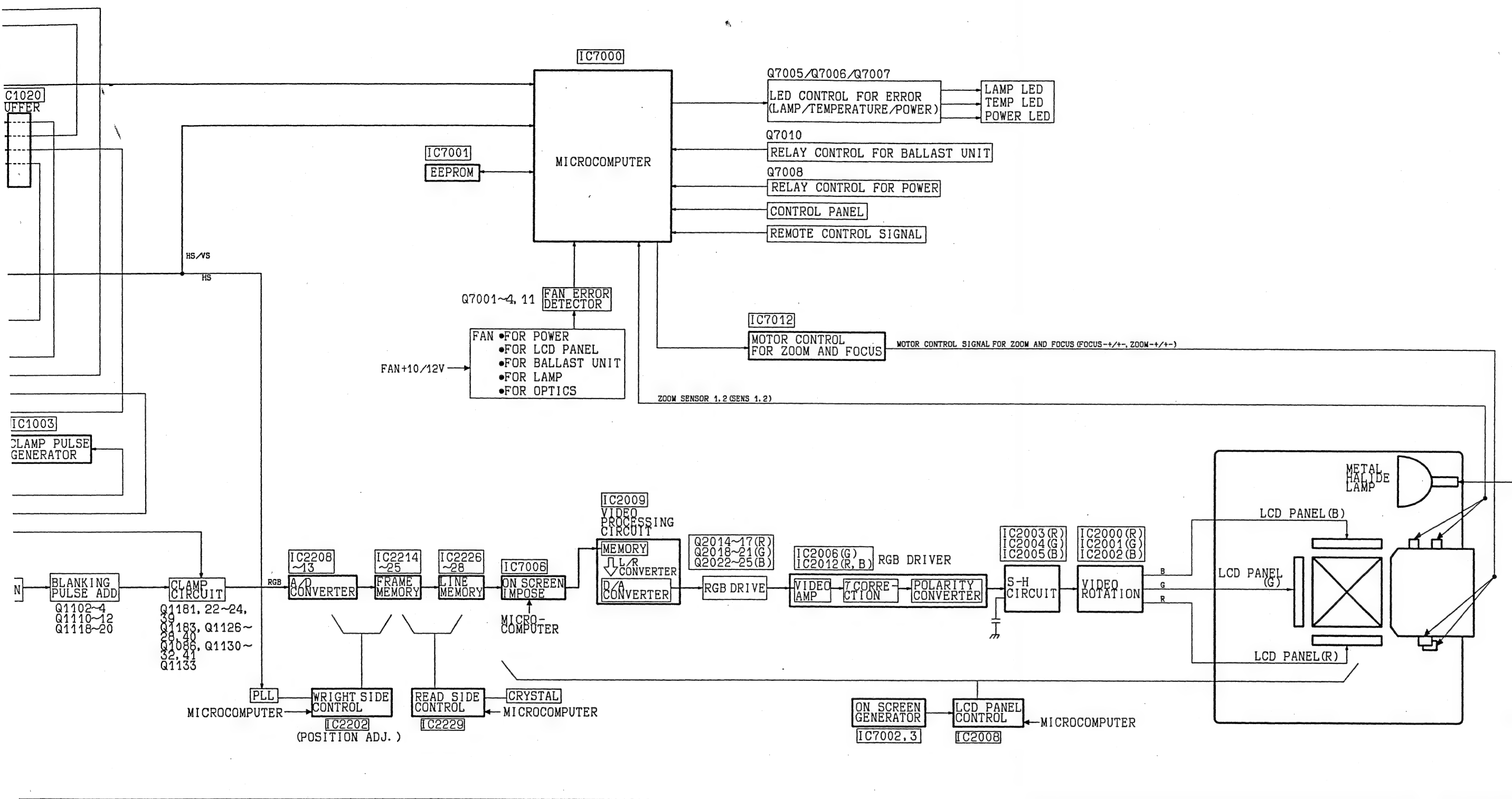
INTERCONNECTION BLOCK DIAGRAM





## SIGNAL BLOCK DIAGRAM

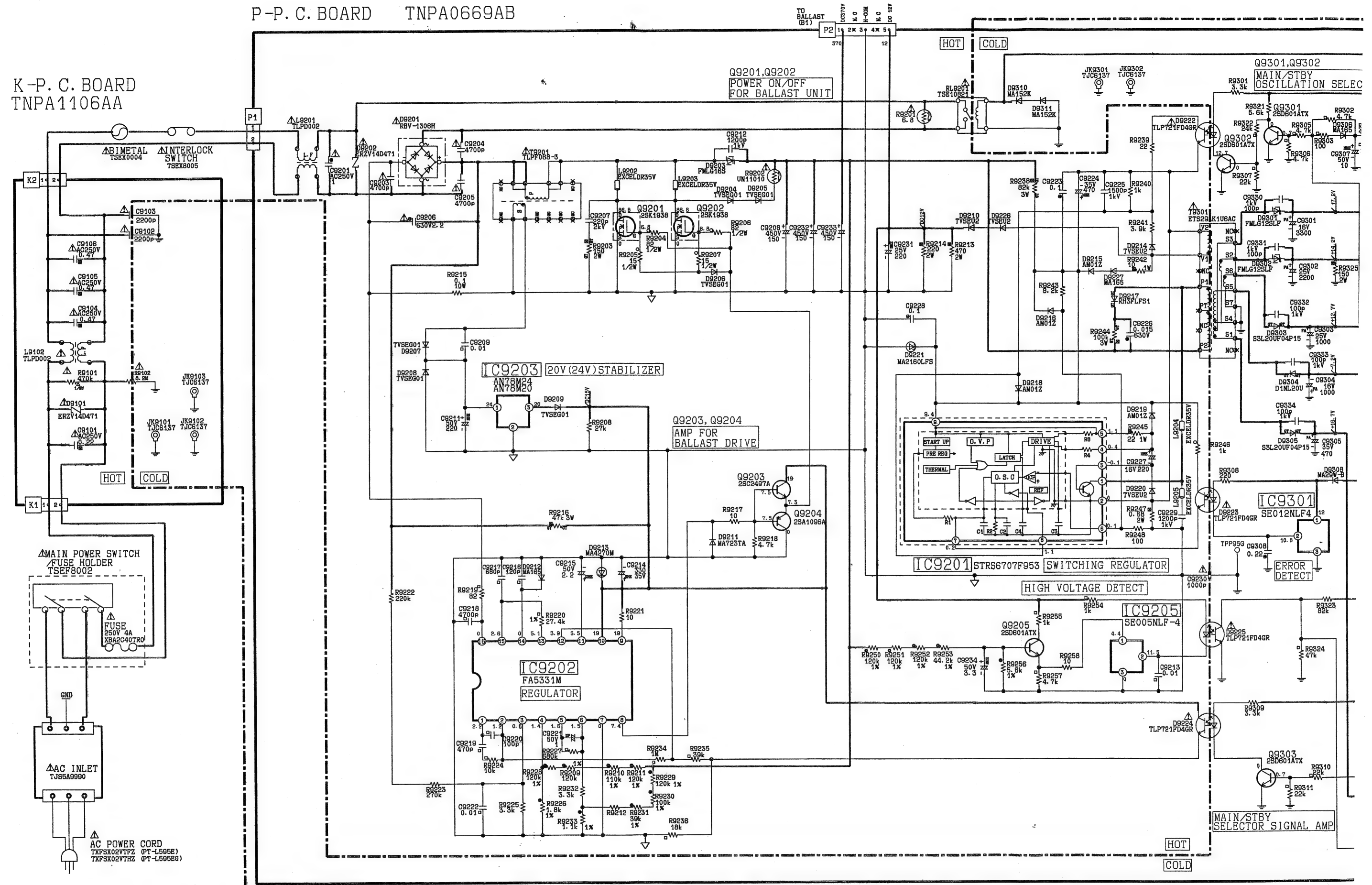


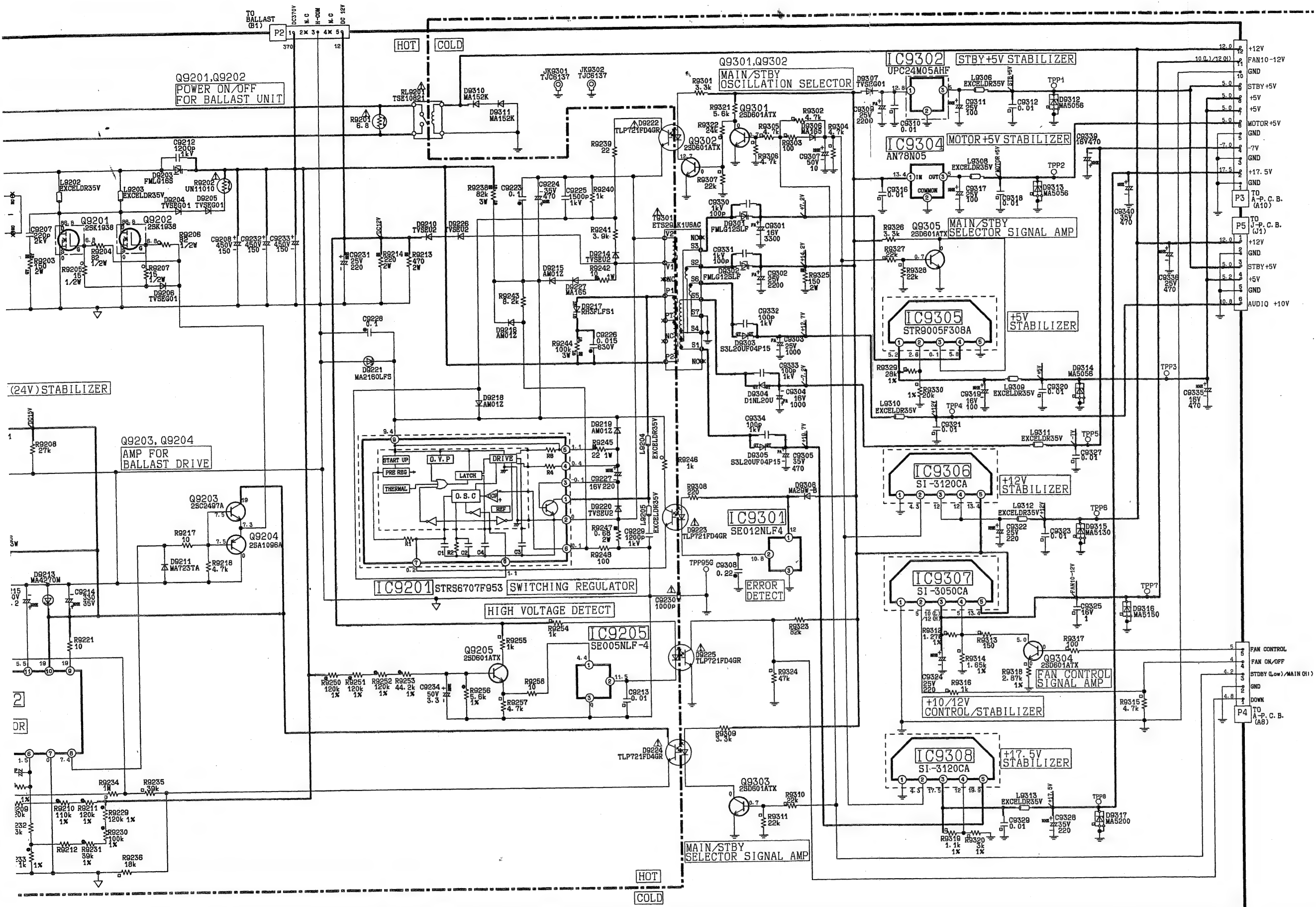


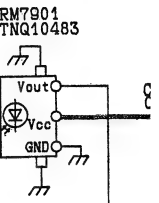
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K-P. C. BOARD  
TNPA1106AA





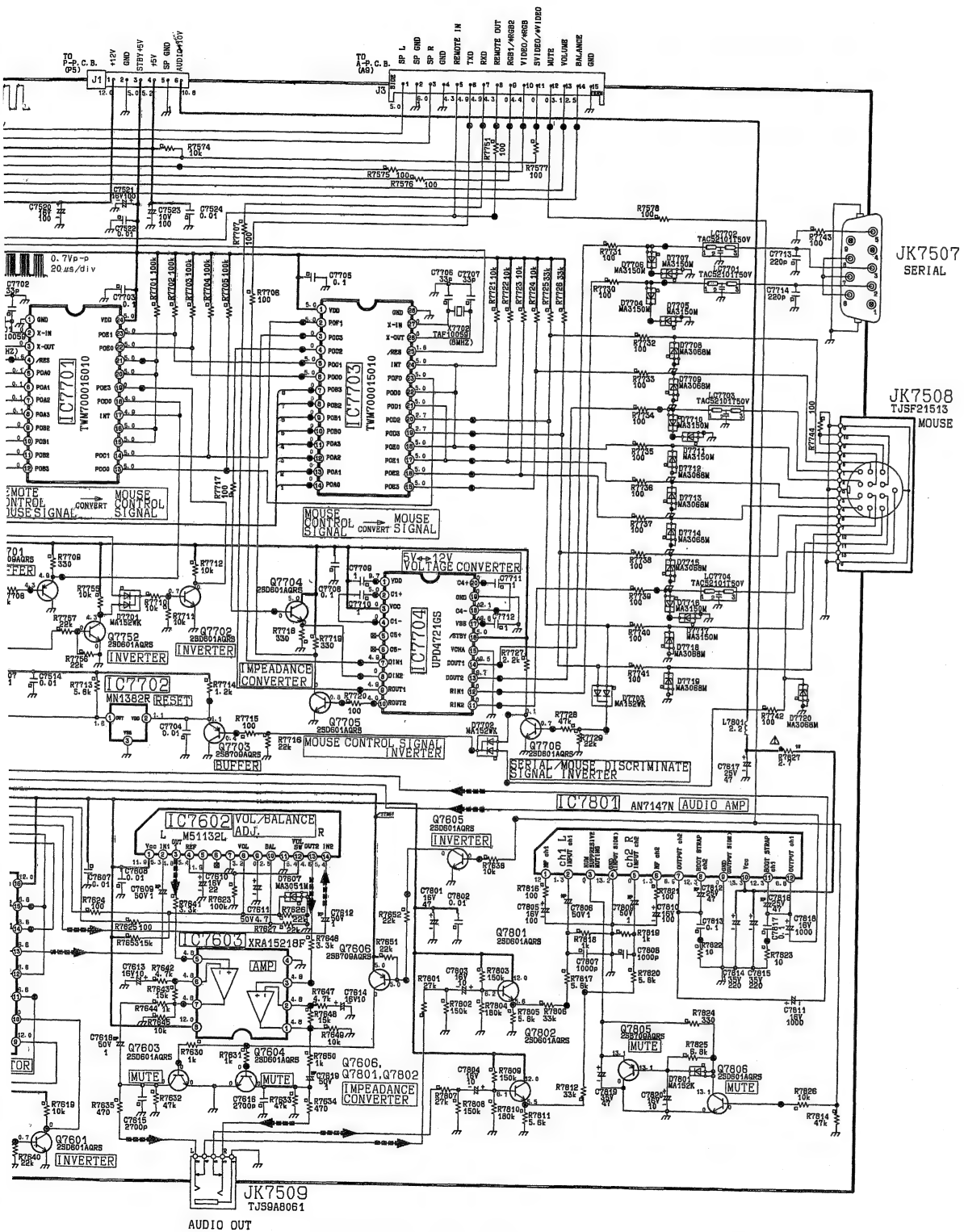


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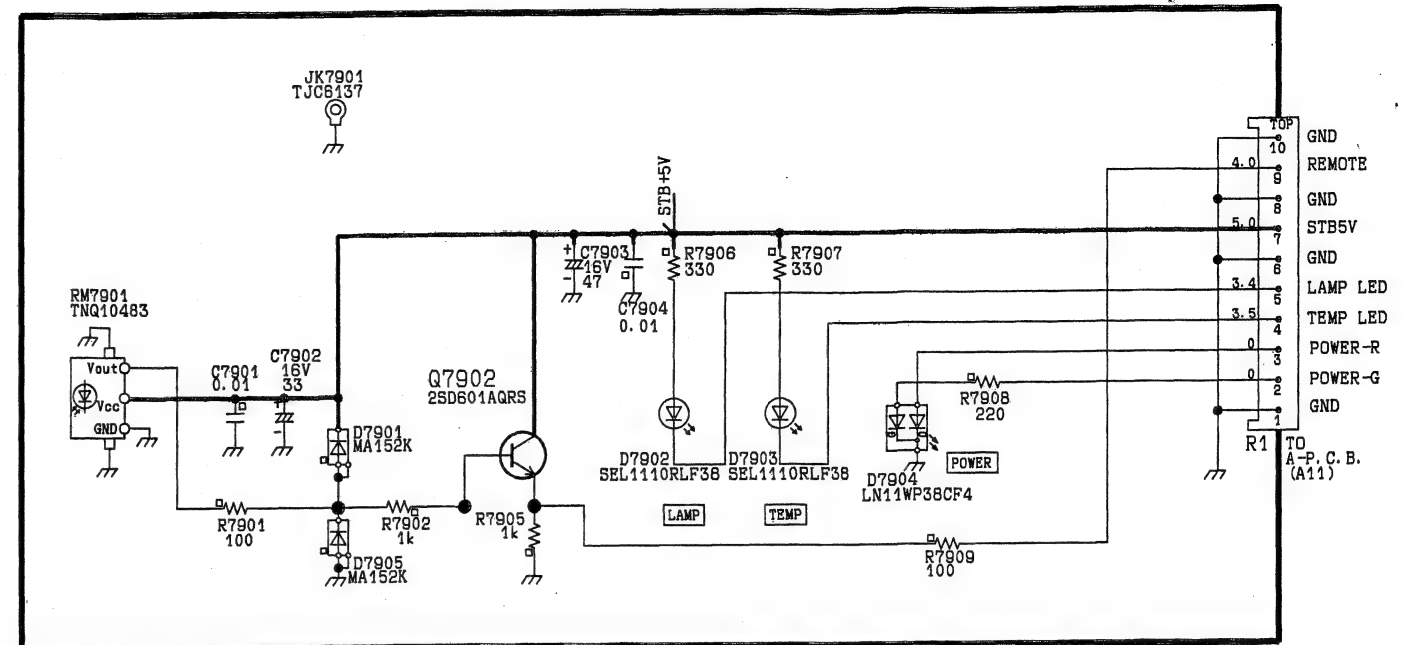
CONTROL  
ANEL

כ"ז

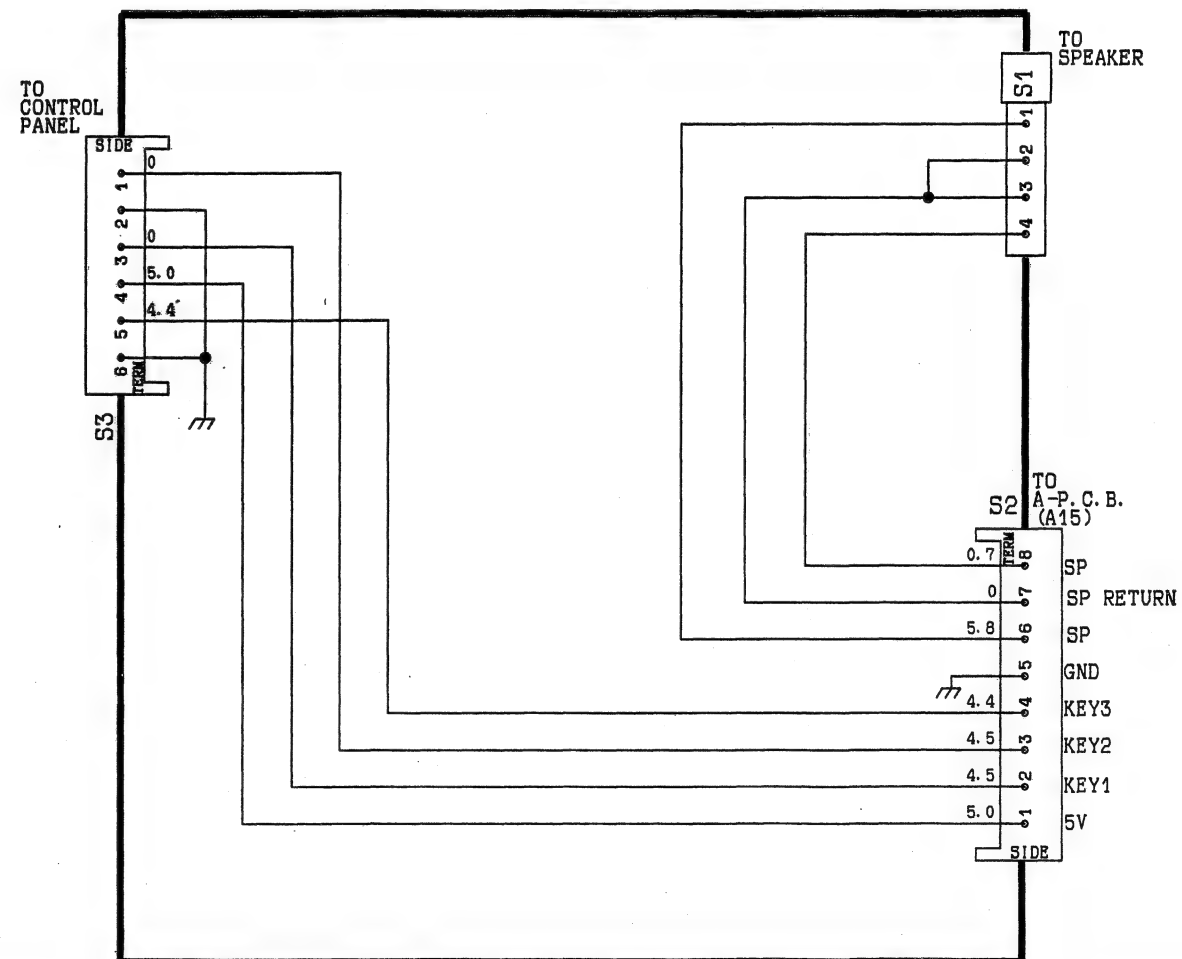




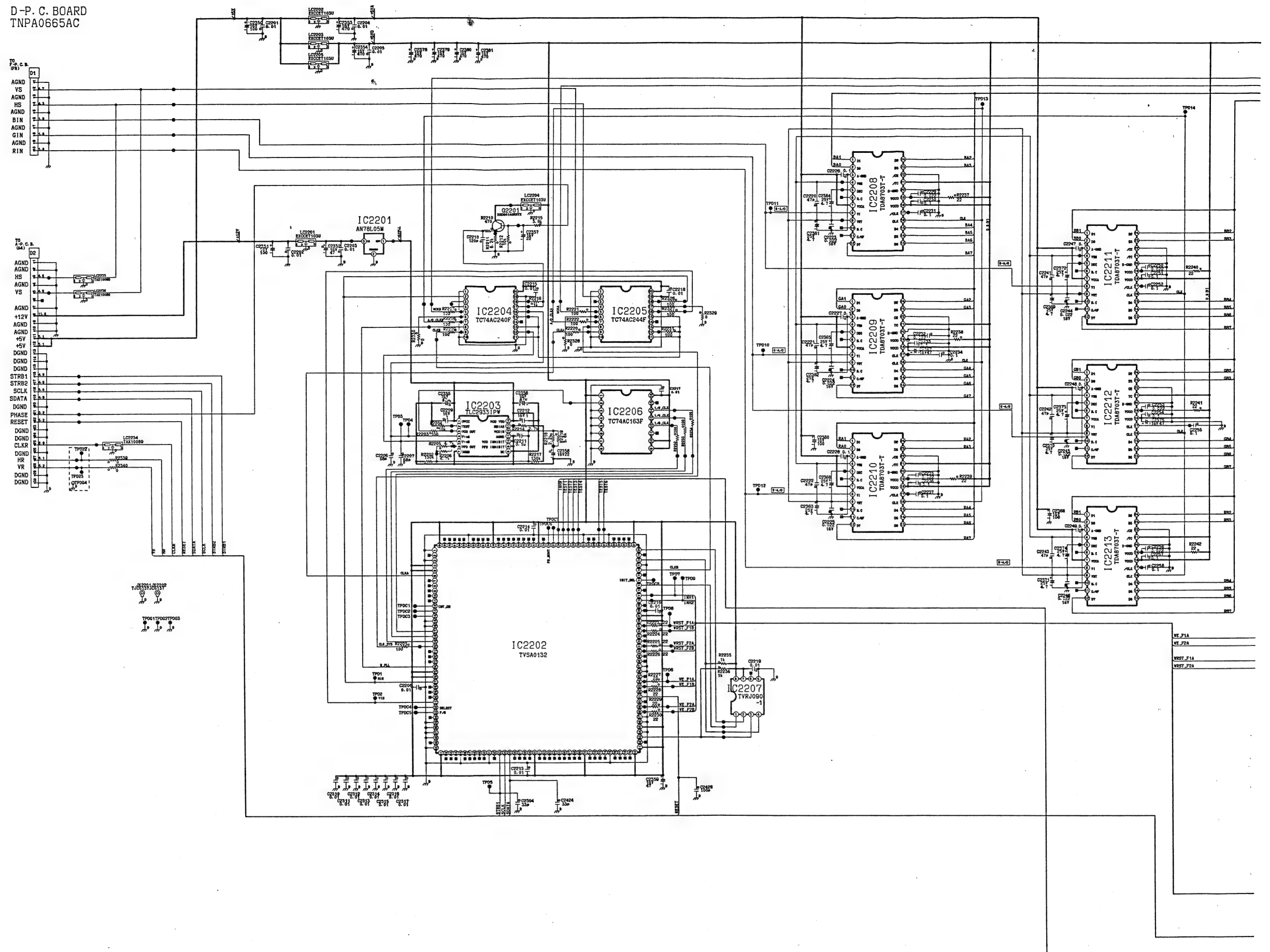
## R-P.C. BOARD TNPA1107AA

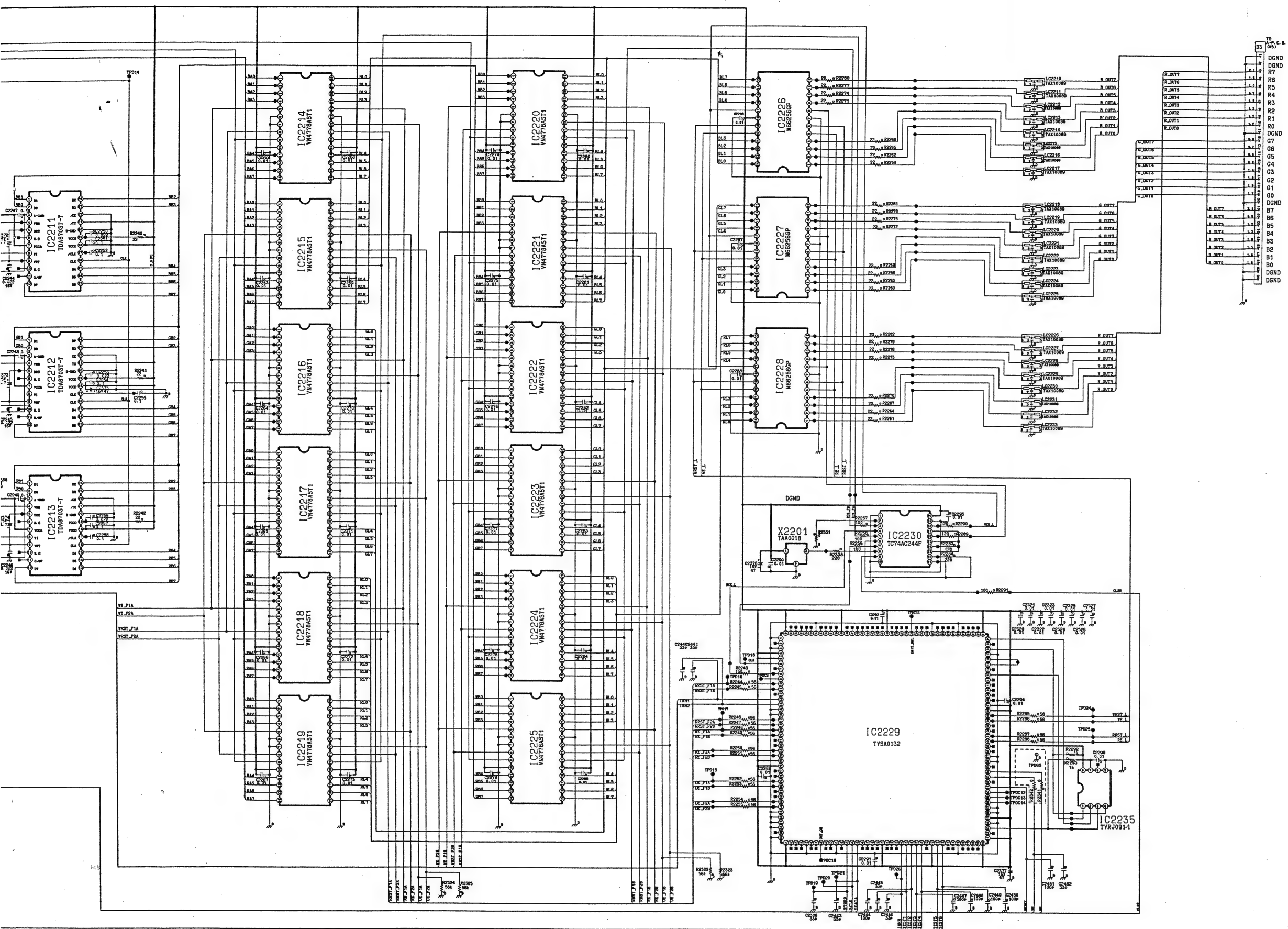


## S-P.C. BOARD TNPA0673AA

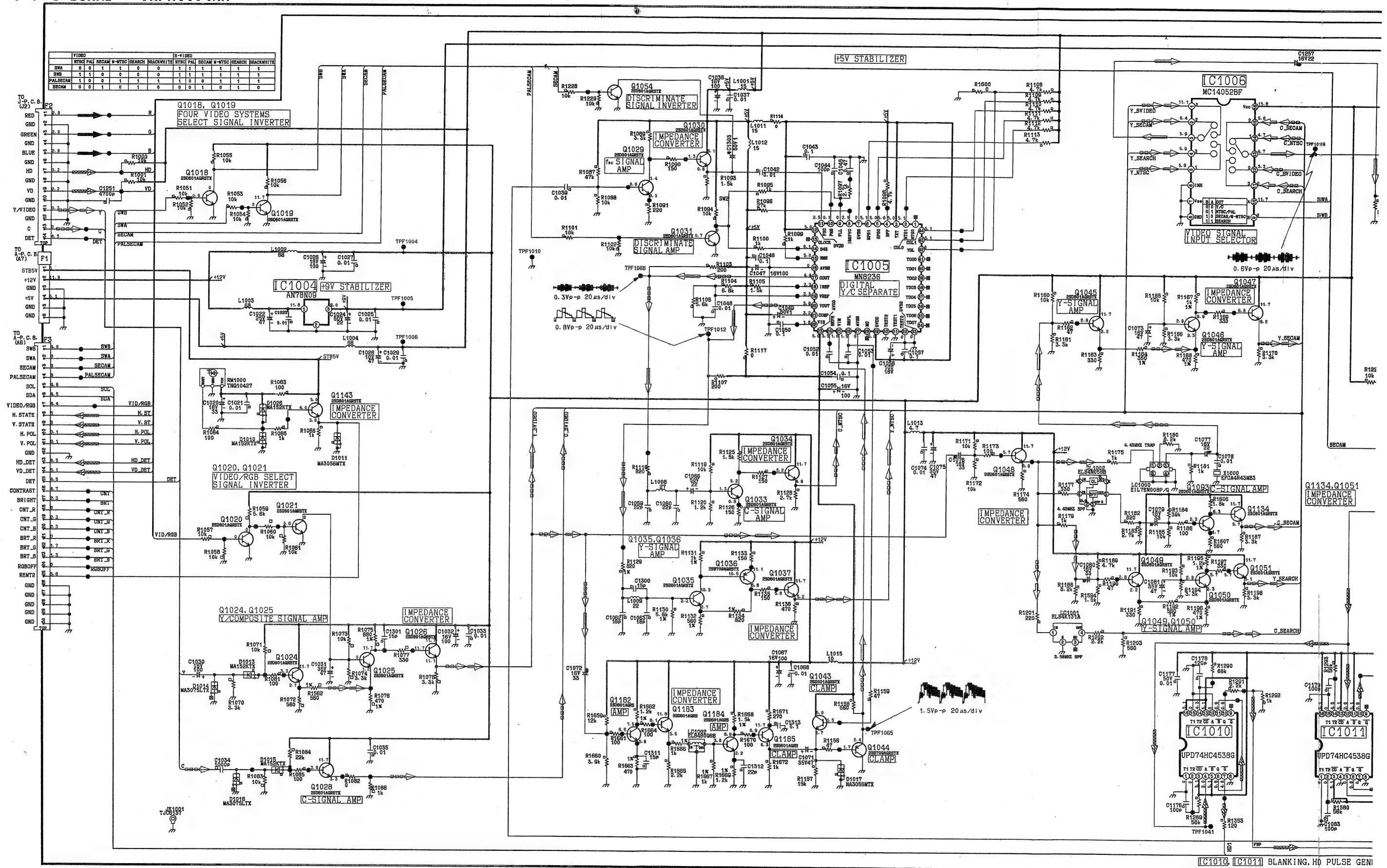


D-P. C. BOARD  
TNPA0665AC

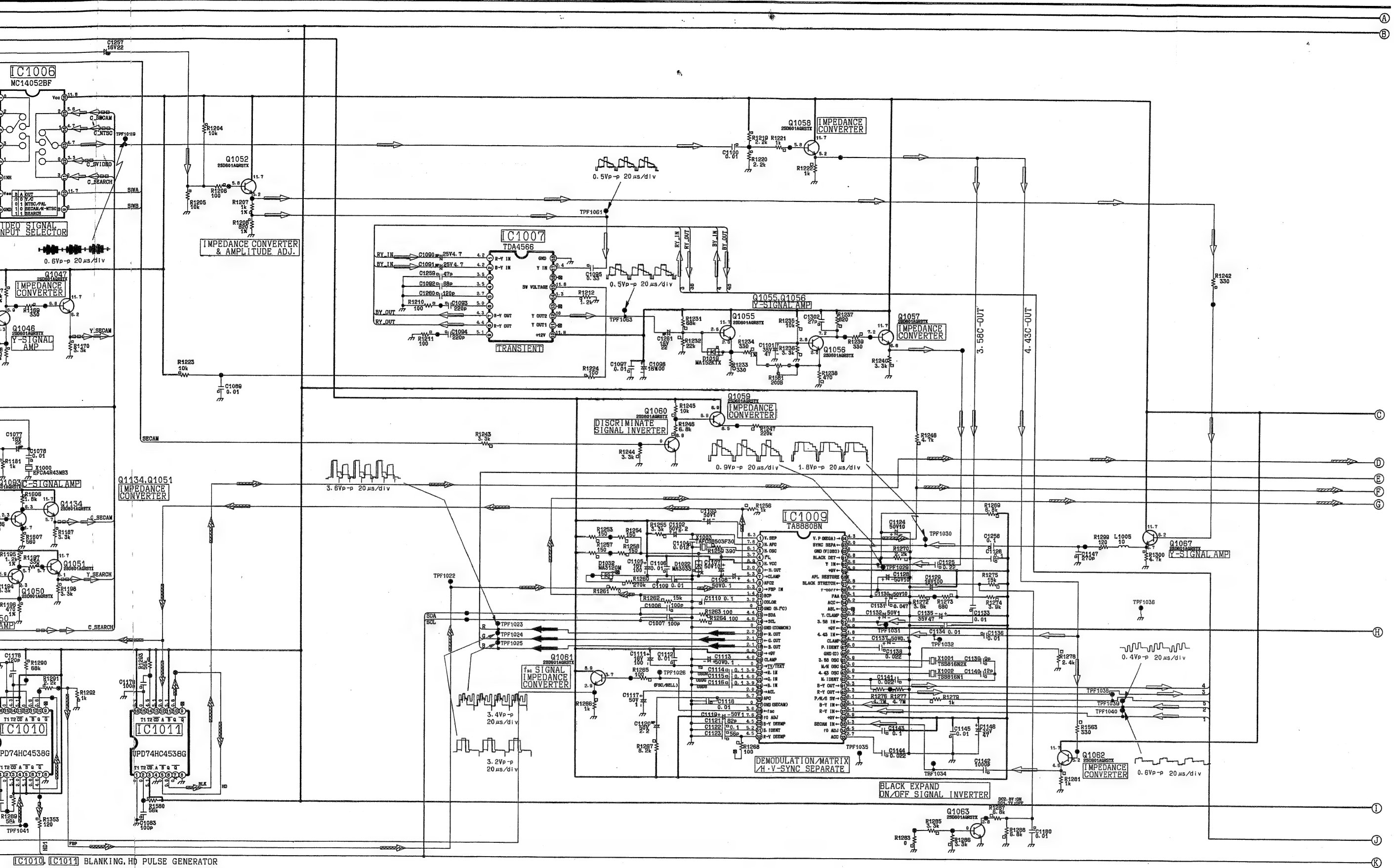




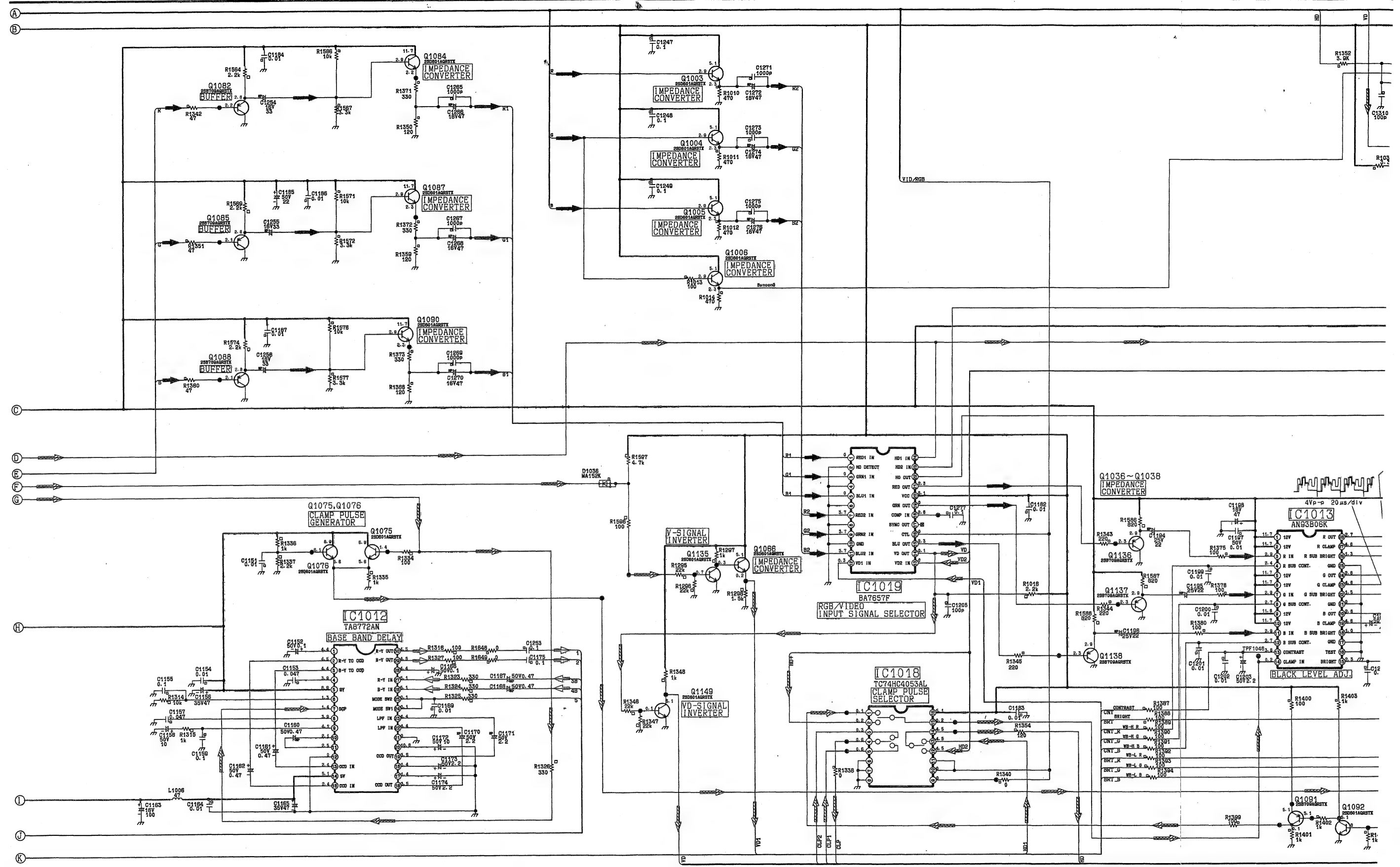
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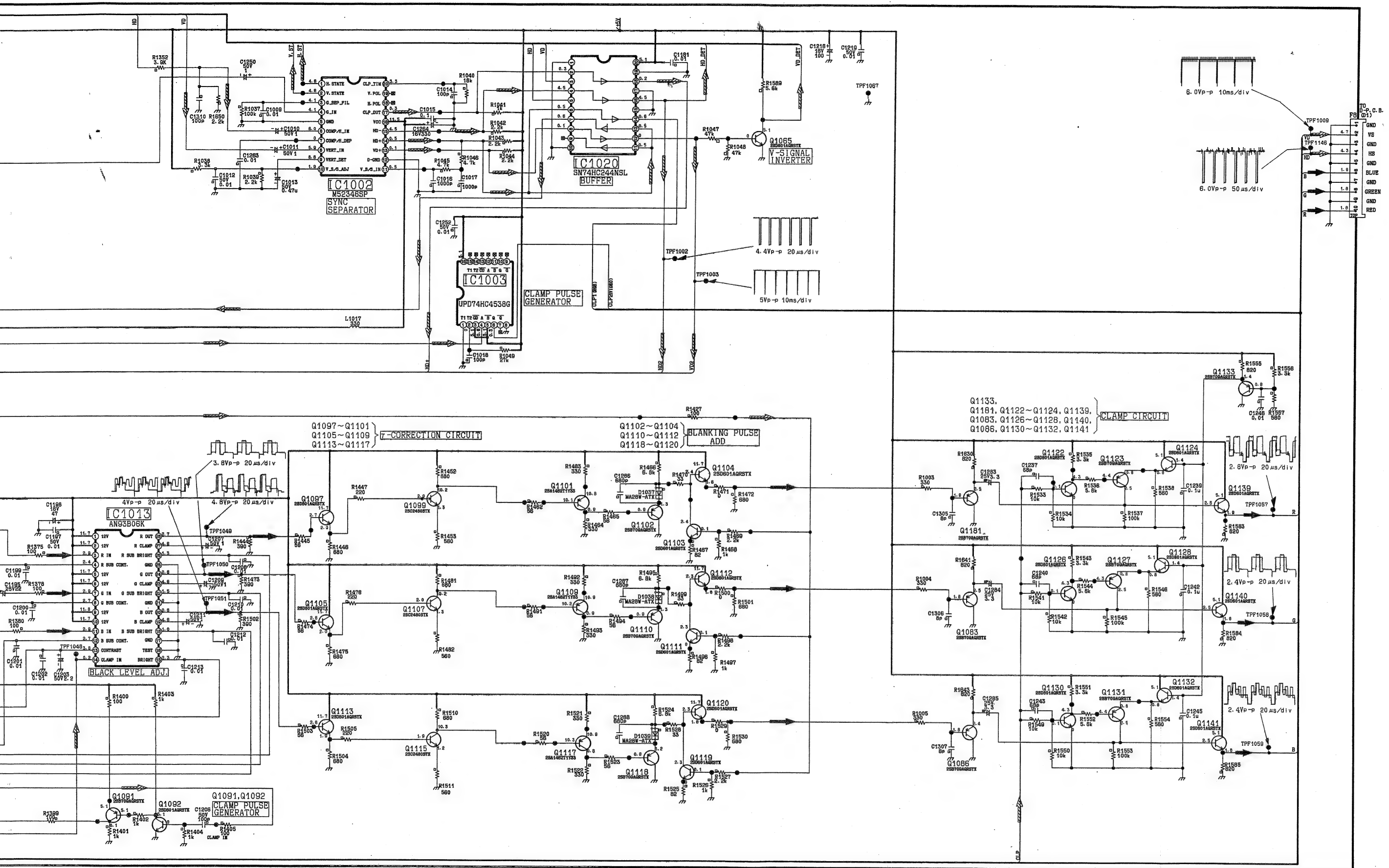


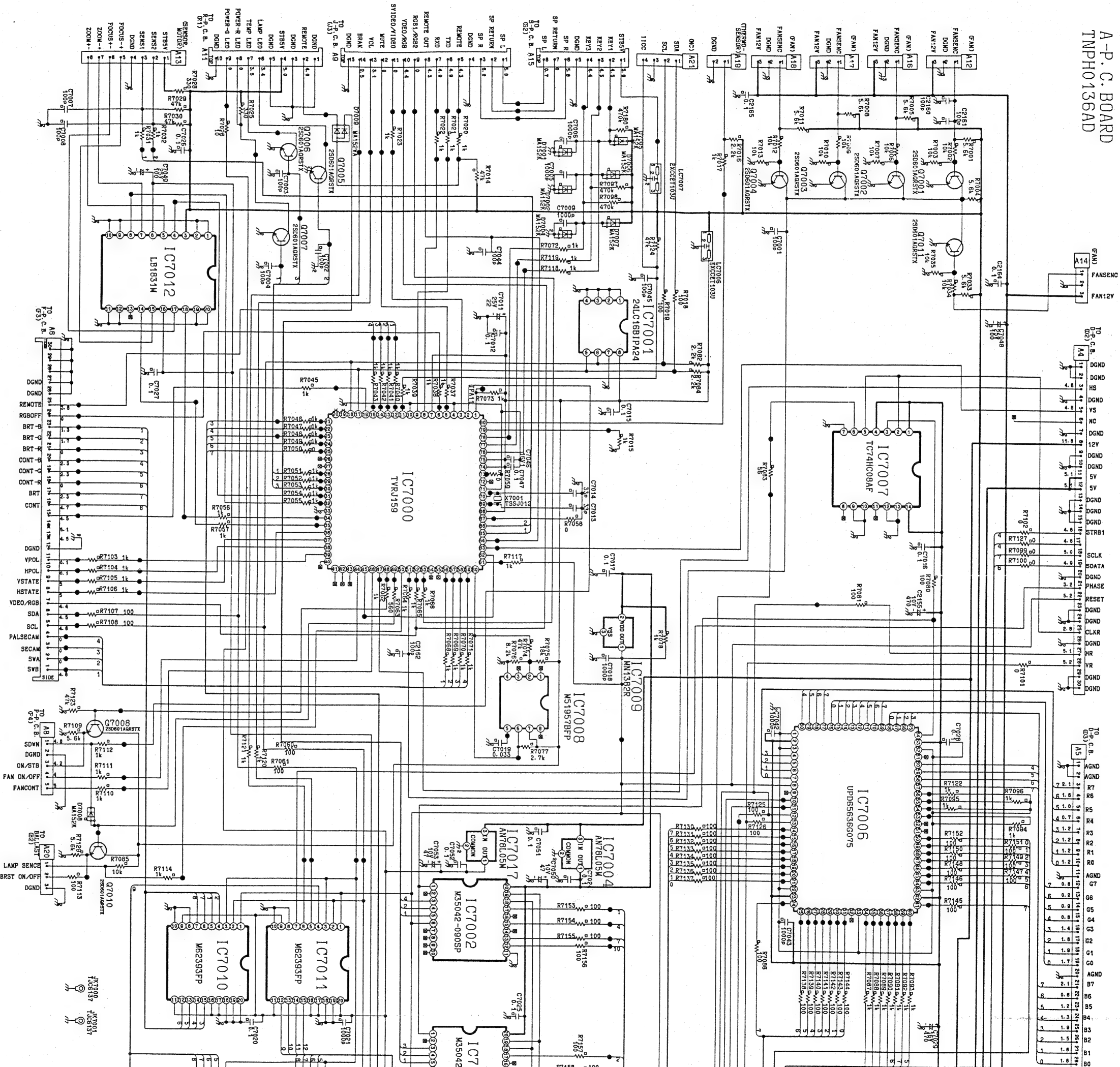




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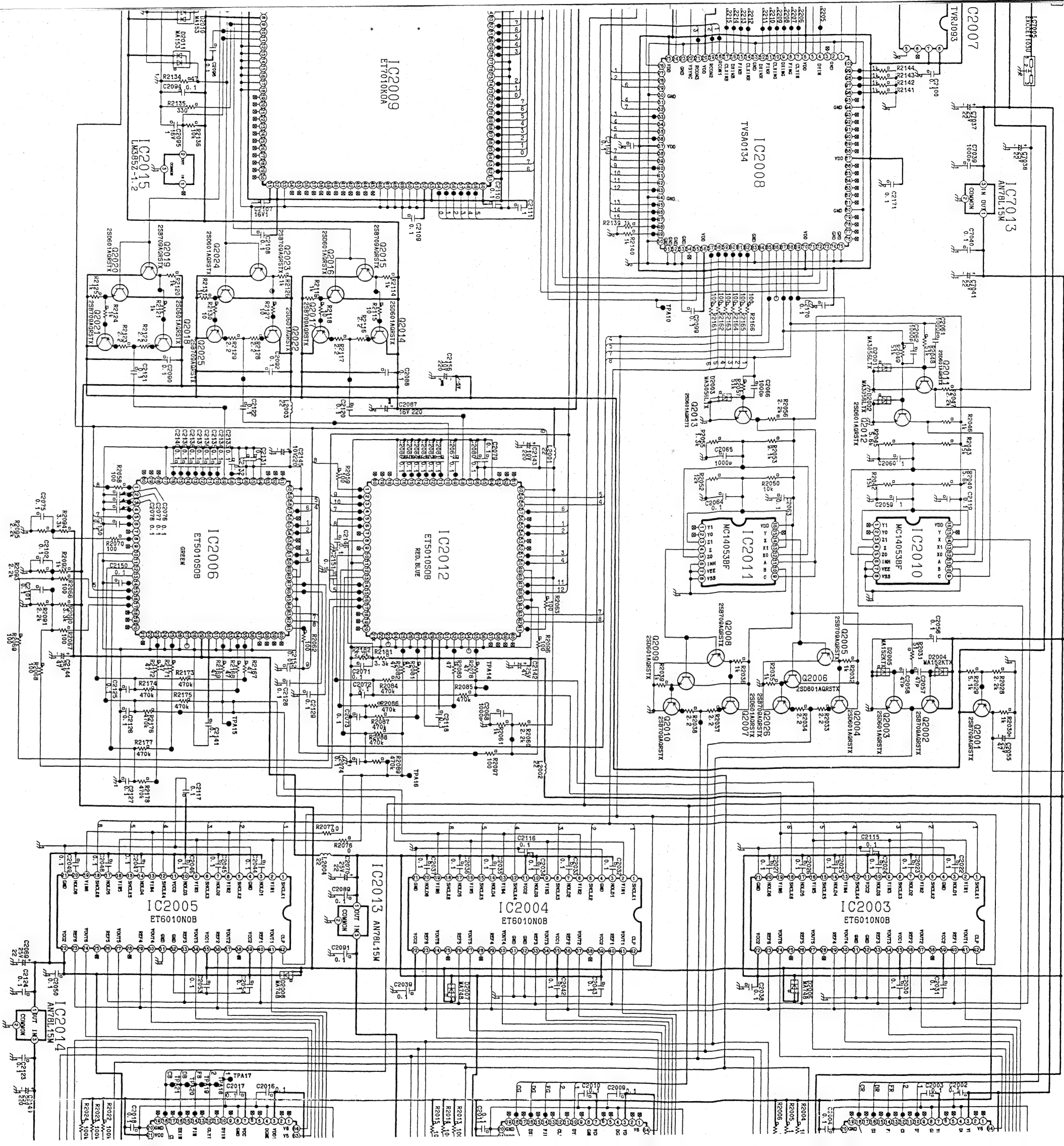




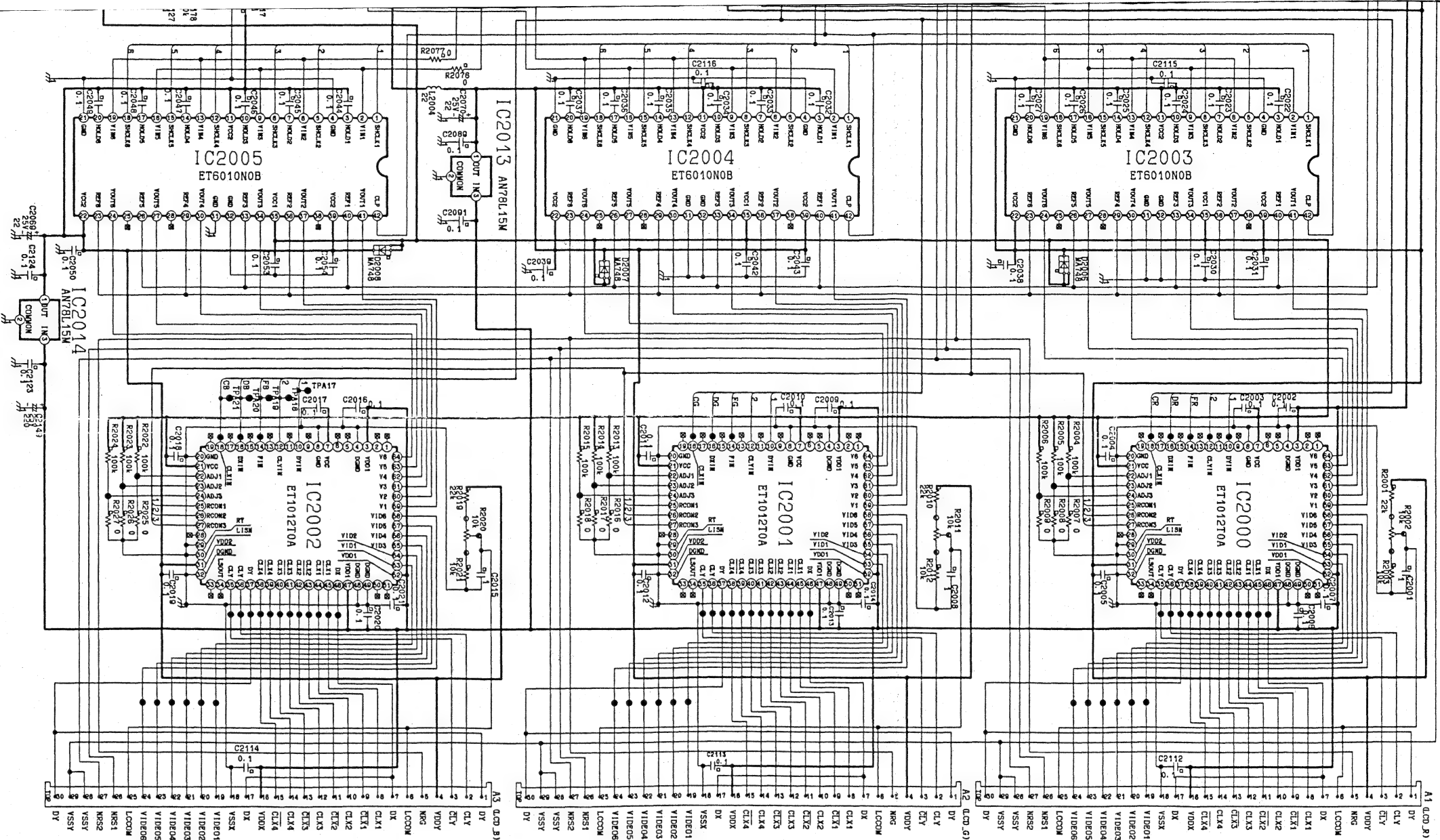






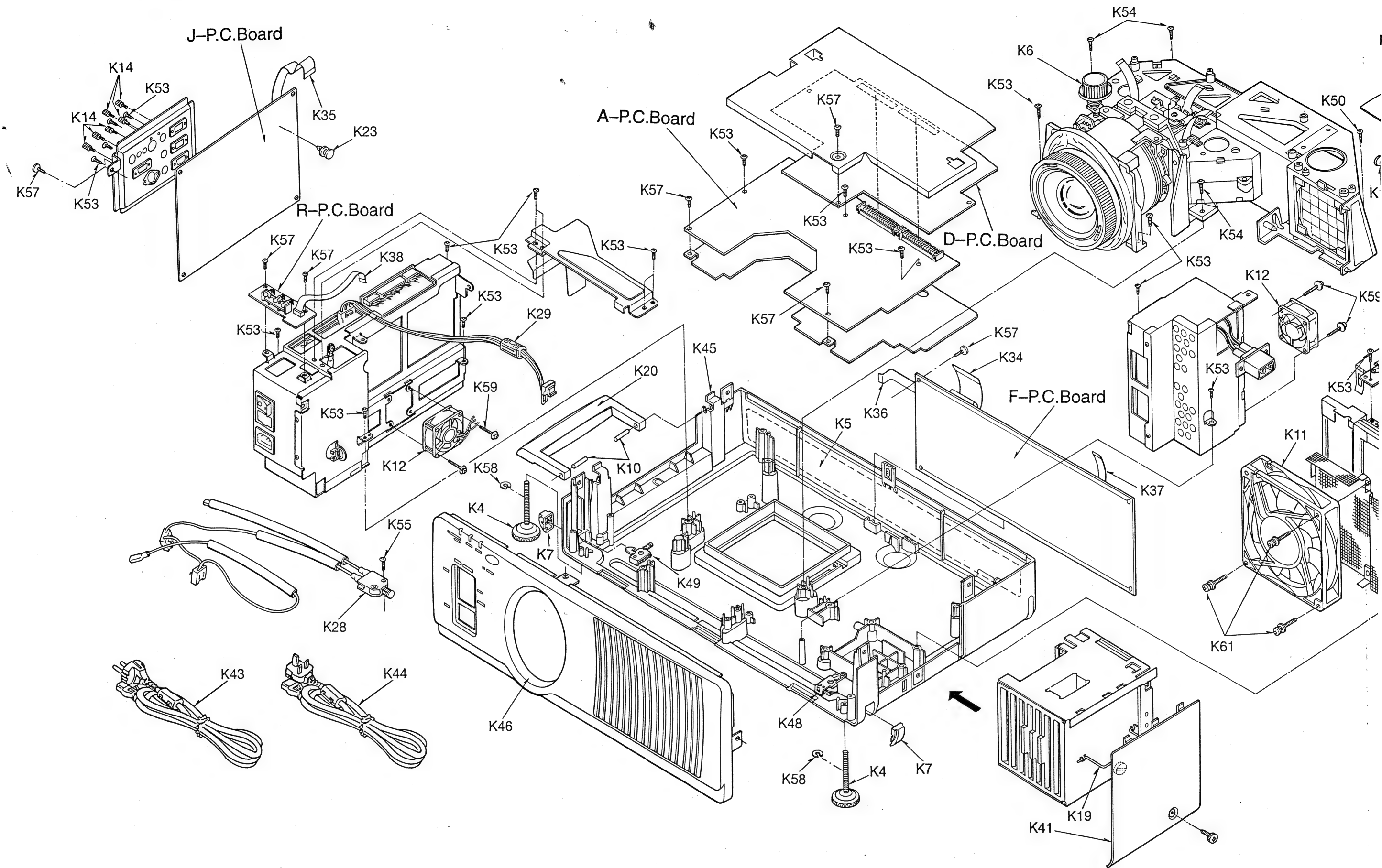


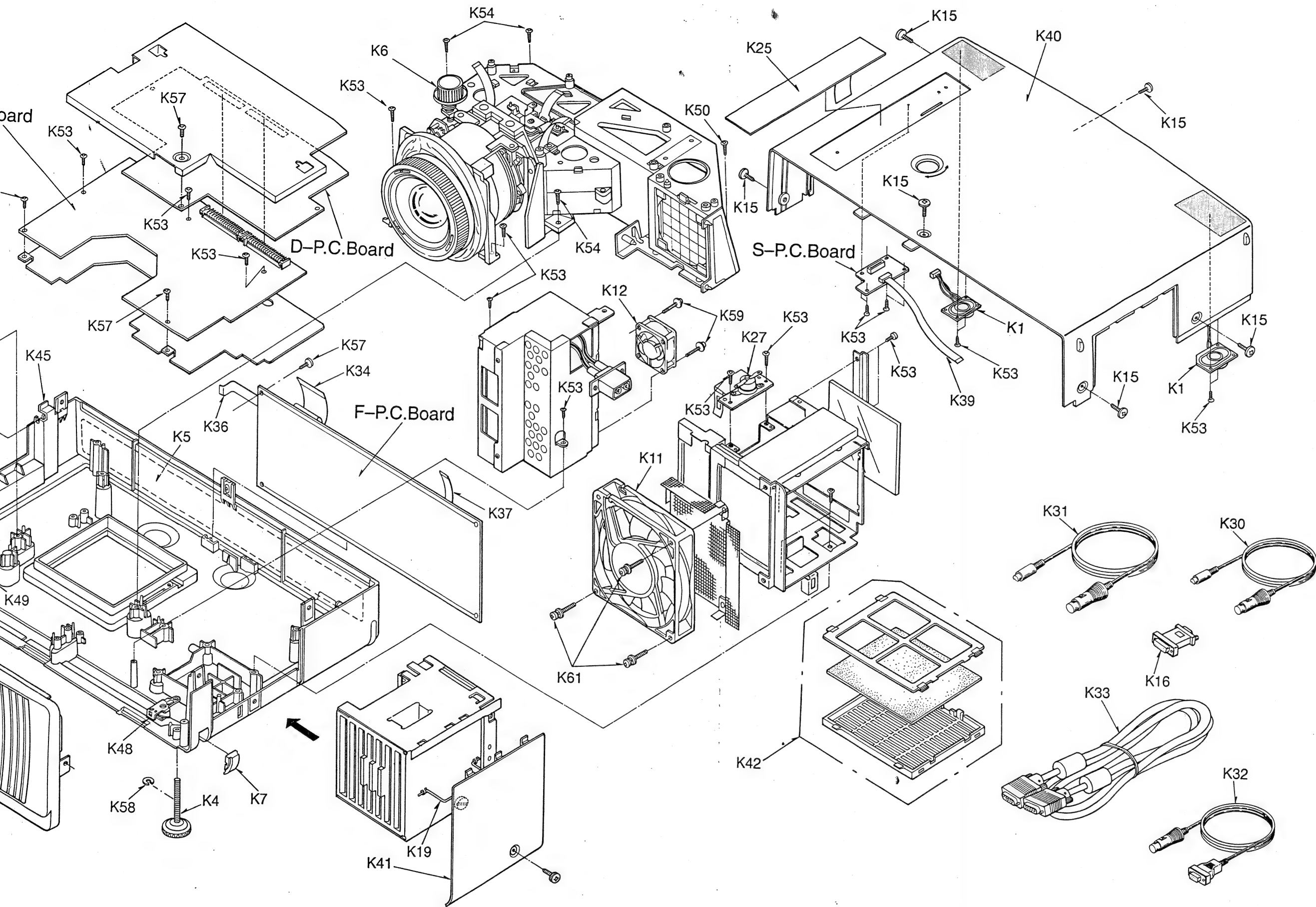
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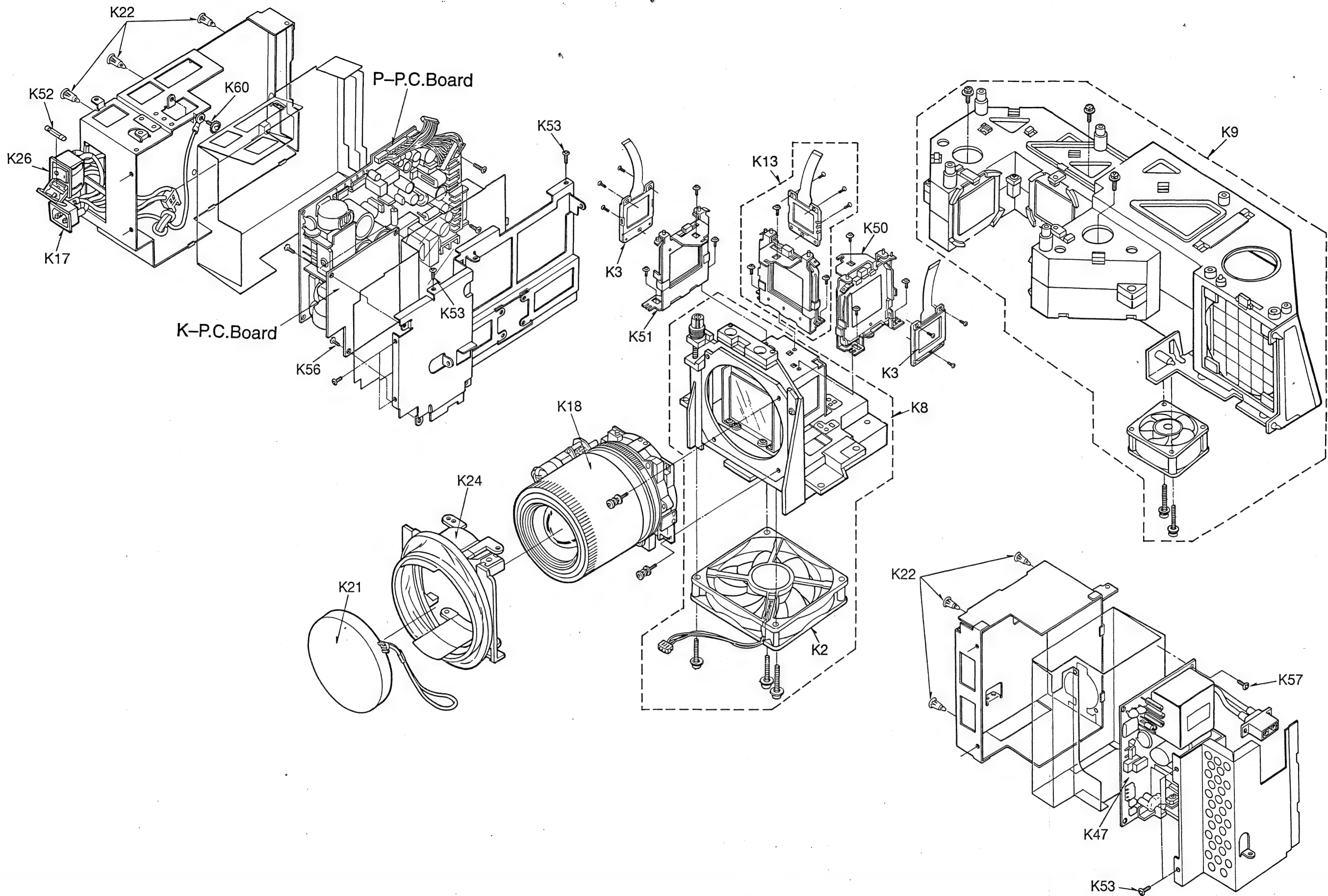


Exploded Views (1)





Exploded Views (2)





REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by the International symbol  $\Delta$  have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example:

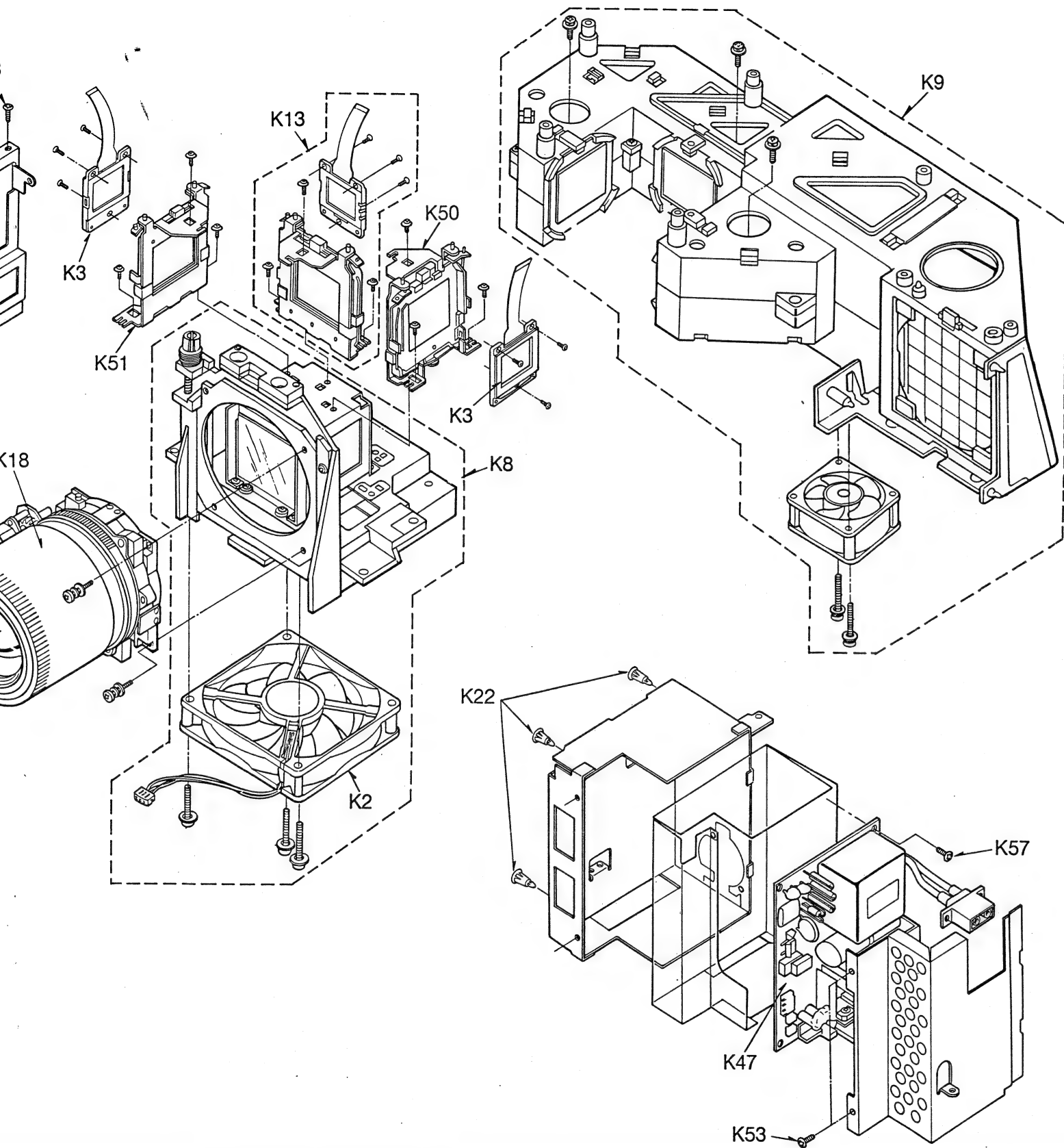
ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : $\pm 0.25\text{ pF}$
E : Electrolytic	D : $\pm 0.5\text{ pF}$
P : Polyester	F : $\pm 1\text{ pF}$
PP : Polypropylene	J : $\pm 5\%$
S : Styrol	K : $\pm 10\%$
T : Tantalum	L : $\pm 15\%$
	M : $\pm 20\%$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

Note: For G O O of Ref. No., not indicate illustration of it part on "Exploded Views". Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
MECHANICAL PARTS					
$\Delta$ K1	EAK4A03A	SPEAKER	G9	TPDA0123-1	CUSHION (UPPER)
K2	FBA09A12H0	FAN	G10	TPDA0124-1	CUSHION (BOTTOM)
K3	P13SM015	LIQUID CRYSTAL DISPLAY (R), (B)	G11	TPE114154	PROTECT COVER
K4	TBLB0016-1	SET LEG	G12	TQBJ0012	INSTRUCTION BOOK
K5	TBMC865	MODEL NAME PLATE	G13	TQD1712010	LABEL
K6	TBXA09201	CONTROL KNOB	$\Delta$ K26	TSEF8002	SWITCH (MAIN)
K7	TBXA09301	SET LEG KNOB	$\Delta$ K27	TSEX0004	BIMETAL
K8	TEDC0002-1	PRISM	$\Delta$ K28	TSEX8005	SWITCH (INTERLOCK)
K9	TEEC0004	ANALYSIS BLOCK	K29	TSK1018	FERRITE CORE
K10	TEJF008	HANDLE SHAFT	K30	TSXF096	CABLE (PS/2)
$\Delta$ K11	TEKH003-1	FAN	K31	TSXF105	CABLE (MAC MOUSE)
$\Delta$ K12	TEKH008	FAN	K32	TSXF106	CABLE (SERIAL MOUSE)
K13	TENC0006	LIQUID CRYSTAL DISPLAY (G)	K33	TSXF122	CABLE (VGA)
G1	TES6348	SPRING	K34	TSXL040	CABLE 30P (F3-A6)
K14	THEC014N	SCREW	K35	TSXL041	CABLE 15P (J3-A9)
K15	THEC0209	SCREW	K36	TSXL042	CABLE 14P (F2-J2)
K16	TJSF27000	MAC ADAPTER	K37	TSXL043-1	CABLE 10P (D1-F8)
G2	TJS1A2240	IC SOCKET	K38	TSXL044	CABLE 10P (R1-A11)
$\Delta$ K17	TJS5A9990	AC INLET	K39	TSXL045	CABLE 8P (S2-A15)
K18	TKGF0009	LENS BLOCK	K40	TXFKF99VXVZ	TOP COVER
K19	TKKB5003	LAMP BOX HANDLE	K41	TXFKK99VXVZ	LAMP COVER
K20	TKKB5010	HANDLE	K42	TXFKL01VHP4	BOTTOM FILTER
K21	TKKL5025	LENS COVER	$\Delta$ K43	TXFSX02VVHZ	AC POWER CORD (PT-L595E)
K22	TMME039	SPACER	$\Delta$ K44	TXFSX02VTHZ	AC POWER CORD (PT-L595EG)
K23	TMM23416	SPACER	K45	TXFTF98VUQZ	BOTTOM COVER
G3	TMM5402-1	CLAMPER	K46	TXFTF99VXVZ	FRONT COVER
G4	TMM7443-3	CLAMPER	$\Delta$ K47	TXN/B1VHP3	BALLAST UNIT
G5	TMWJ006	LED HOLDER	K48	TXZGA01VHF6	SET LEG (R)
K24	TMZX0004-1	FILTER	K49	TXZGA02VHF6	SET LEG (L)
G6	TNQE088	REMOTE CONTROL	K50	TZTEN01VHF6	ADJUSTMENT METAL (R)
K25	TNXX015	CONTROL SWITCH	K51	TZTEN02VHF6	ADJUSTMENT METAL (B)
G7	TXFPC99VXVZ	CARTON	$\Delta$ K52	XBA1C80NB5	FUSE 250V 4A
	TQB817002-1	SAFETY SHEET	K53	XTBT969Z	SCREW
			K54	XTB4+15AFZ	SCREW
				TSXF015	CABLE (VIDEO/AUDIO)
				TSXF150	CABLE (PC AUDIO)



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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
K55	XTB4+20A	SCREW	IC2223	MN4778AS	MOS IC
G14	XTN25+6GFZ	SCREW	IC2224	MN4778AS	MOS IC
K56	XTV3+6J	SCREW	IC2225	MN4778AS	MOS IC
K57	XTW3+8T	TAPPING SCREW	IC2226	M66256GP	MOS IC
G15	XUC2	E RING	IC2227	M66256GP	MOS IC
K58	XUC3	E RING	IC2228	M66256GP	MOS IC
K59	XYN3+F25	SCREW	IC2229	TVSA0132	MOS IC
G16	XYN3+F8	SCREW	IC2230	TC74AC244F	MOS IC
G17	XYN3+J8	SCREW	IC2235	TVRJ091-1	MOS IC
K60	XYN4+E8	SCREW	IC7000	TVRJ112-2	I.C
K61	XYN4+F32	SCREW	IC7001	24LC16BIP24	MOS IC
G18	XZBT6506	POLY BAG	IC7002	M35042-090SP	MOS IC
INTEGRATED CIRCUITS			IC7003	M35042-089SP	MOS IC
IC1002	M52346SP	LINEAR IC	IC7004	AN78L05M	LINEAR IC
IC1003	UPD74HC4538G	MOS IC	IC7006	UPD65636G075	MOS IC
IC1004	AN78N09	LINEAR IC	IC7007	TC74HC08AF	MOS IC
IC1005	MN8236	MOS IC	IC7008	M51957BFP	LINEAR IC
IC1006	MC14052BF	MOS IC	IC7009	MN1382R	MOS IC
IC1007	TDA4566	LINEAR IC	IC7010	M62393FP	MOS IC
IC1009	TA8880BN	LINEAR IC	IC7011	M62393FP	MOS IC
IC1010	UPD74HC4538G	MOS IC	IC7012	LB1831M	LINEAR IC
IC1011	UPD74HC4538G	MOS IC	IC7013	AN78L15M	LINEAR IC
IC1012	TA8772AN	LINEAR IC	IC7014	AN79L05M	LINEAR IC
IC1013	AN93B06K	LINEAR IC	IC7015	M62393FP	MOS IC
IC1018	TC74HC4053AF	MOS IC	IC7016	M62393FP	MOS IC
IC1019	BA7657F	LINEAR IC	IC7017	AN78L05M	LINEAR IC
IC1020	SN74HC244NS	MOS IC	IC7501	24LC21T-I/SN	MOS IC
IC2000	ET1012T0A	LINEAR IC	IC7502	24LC21T-I/SN	MOS IC
IC2001	ET1012T0A	LINEAR IC	IC7503	BA7657F	LINEAR IC
IC2002	ET1012T0A	LINEAR IC	IC7504	NJM2229M	LINEAR IC
IC2003	ET6010N0B	LINEAR IC	IC7505	AD8073JR	I.C
IC2004	ET6010N0B	LINEAR IC	IC7601	MC14052BF	MOS IC
IC2005	ET6010N0B	LINEAR IC	IC7602	M51132L	LINEAR IC
IC2006	ET5010S0B	LINEAR IC	IC7603	BA15218F	LINEAR IC
IC2007	TVRJ093	MOS IC	IC7701	TWM700016010	MOS IC
IC2008	TVSA0134	MOS IC	IC7702	MN1382R	MOS IC
IC2009	ET7010K0A	LINEAR IC	IC7703	TWM700015010	MOS IC
IC2010	MC14053BF	MOS IC	IC7704	UPD4721GS	MOS IC
IC2011	MC14053BF	MOS IC	IC7801	AN7147N	LINEAR IC
IC2012	ET5010S0B	LINEAR IC	IC9201	STRS6707F953	LINEAR IC
IC2013	AN78L15M	LINEAR IC	IC9202	FA5331M	LINEAR IC
IC2014	AN78L15M	LINEAR IC	IC9203	AN78M20	LINEAR IC
IC2015	LM385Z-1.2	I.C	IC9205	SE005NLF-4	HYBRID IC
IC2201	AN78L05M	LINEAR IC	IC9301	SE012NLF4	HYBRID IC
IC2202	TVSA0132	MOS IC	IC9302	UPC24M05AHF	LINEAR IC
IC2203	TLC2933IPW	I.C	IC9304	AN78N05	LINEAR IC
IC2204	TC74AC240FEL	MOS IC	IC9305	STR9005F308A	LINEAR IC
IC2205	TC74AC244F	MOS IC	IC9306	SI-3120CA	HYBRID IC
IC2206	TC74AC163F	MOS IC	IC9307	SI-3050CA	HYBRID IC
IC2207	TVRJ090-1	MOS IC	IC9308	SI-3120CA	HYBRID IC
IC2208	TDA8703T-T	LINEAR IC	TRANSISTORS		
IC2209	TDA8703T-T	LINEAR IC	Q1003	2SD601AQ	TRANSISTOR
IC2210	TDA8703T-T	LINEAR IC	Q1004	2SD601AQ	TRANSISTOR
IC2211	TDA8703T-T	LINEAR IC	Q1005	2SD601AQ	TRANSISTOR
IC2212	TDA8703T-T	LINEAR IC	Q1006	2SD601AQ	TRANSISTOR
IC2213	TDA8703T-T	LINEAR IC	Q1018	2SD601AQ	TRANSISTOR
IC2214	MN4778AS	MOS IC	Q1019	2SD601AQ	TRANSISTOR
IC2215	MN4778AS	MOS IC	Q1020	2SD601AQ	TRANSISTOR
IC2216	MN4778AS	MOS IC	Q1021	2SD601AQ	TRANSISTOR
IC2217	MN4778AS	MOS IC	Q1024	2SD601AQ	TRANSISTOR
IC2218	MN4778AS	MOS IC	Q1025	2SD601AQ	TRANSISTOR
IC2219	MN4778AS	MOS IC	Q1026	2SD601AQ	TRANSISTOR
IC2220	MN4778AS	MOS IC	Q1028	2SD601AQ	TRANSISTOR
IC2221	MN4778AS	MOS IC	Q1029	2SD601AQ	TRANSISTOR
IC2222	MN4778AS	MOS IC	Q1030	2SD601AQ	TRANSISTOR

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q1031	2SD601AQ	TRANSISTOR	Q1133	2SB709AR	TRANSISTOR
Q1033	2SD601AQ	TRANSISTOR	Q1134	2SD601AQ	TRANSISTOR
Q1034	2SD601AQ	TRANSISTOR	Q1135	2SD601AQ	TRANSISTOR
Q1035	2SD601AQ	TRANSISTOR	Q1136	2SB709AR	TRANSISTOR
Q1036	2SB709AR	TRANSISTOR	Q1137	2SB709AR	TRANSISTOR
Q1037	2SD601AQ	TRANSISTOR	Q1138	2SB709AR	TRANSISTOR
Q1043	2SD601AQ	TRANSISTOR	Q1139	2SD601AQ	TRANSISTOR
Q1044	2SB709AR	TRANSISTOR	Q1140	2SD601AQ	TRANSISTOR
Q1045	2SD601AQ	TRANSISTOR	Q1141	2SD601AQ	TRANSISTOR
Q1046	2SD601AQ	TRANSISTOR	Q1143	2SD601AQ	TRANSISTOR
Q1047	2SD601AQ	TRANSISTOR	Q1149	2SD601AQ	TRANSISTOR
Q1048	2SD601AQ	TRANSISTOR	Q1181	2SB709AR	TRANSISTOR
Q1049	2SD601AQ	TRANSISTOR	Q1182	2SD601AQ	TRANSISTOR
Q1050	2SD601AQ	TRANSISTOR	Q1183	2SD601AQ	TRANSISTOR
Q1051	2SD601AQ	TRANSISTOR	Q1184	2SD601AQ	TRANSISTOR
Q1052	2SD601AQ	TRANSISTOR	Q1185	2SD601AQ	TRANSISTOR
Q1054	2SD601AQ	TRANSISTOR	Q2001	2SB709AR	TRANSISTOR
Q1055	2SD601AQ	TRANSISTOR	Q2002	2SB709AR	TRANSISTOR
Q1056	2SD601AQ	TRANSISTOR	Q2003	2SD601AQ	TRANSISTOR
Q1057	2SD601AQ	TRANSISTOR	Q2004	2SD601AQ	TRANSISTOR
Q1058	2SD601AQ	TRANSISTOR	Q2005	2SB709AR	TRANSISTOR
Q1059	2SD601AQ	TRANSISTOR	Q2006	2SD601AQ	TRANSISTOR
Q1060	2SD601AQ	TRANSISTOR	Q2007	2SD601AQ	TRANSISTOR
Q1061	2SD601AQ	TRANSISTOR	Q2008	2SB709AR	TRANSISTOR
Q1062	2SD601AQ	TRANSISTOR	Q2009	2SD601AQ	TRANSISTOR
Q1063	2SD601AQ	TRANSISTOR	Q2010	2SB709AR	TRANSISTOR
Q1065	2SD601AQ	TRANSISTOR	Q2011	2SD601AQ	TRANSISTOR
Q1066	2SD601AQ	TRANSISTOR	Q2012	2SD601AQ	TRANSISTOR
Q1067	2SD601AQ	TRANSISTOR	Q2013	2SD601AQ	TRANSISTOR
Q1075	2SD601AQ	TRANSISTOR	Q2014	2SD601AQ	TRANSISTOR
Q1076	2SD601AQ	TRANSISTOR	Q2015	2SB709AR	TRANSISTOR
Q1082	2SB709AR	TRANSISTOR	Q2016	2SD601AQ	TRANSISTOR
Q1083	2SB709AR	TRANSISTOR	Q2017	2SB709AR	TRANSISTOR
Q1084	2SD601AQ	TRANSISTOR	Q2018	2SD601AQ	TRANSISTOR
Q1085	2SB709AR	TRANSISTOR	Q2019	2SB709AR	TRANSISTOR
Q1086	2SB709AR	TRANSISTOR	Q2020	2SD601AQ	TRANSISTOR
Q1087	2SD601AQ	TRANSISTOR	Q2021	2SB709AR	TRANSISTOR
Q1088	2SB709AR	TRANSISTOR	Q2022	2SD601AQ	TRANSISTOR
Q1090	2SD601AQ	TRANSISTOR	Q2023	2SB709AR	TRANSISTOR
Q1091	2SB709AR	TRANSISTOR	Q2024	2SD601AQ	TRANSISTOR
Q1092	2SD601AQ	TRANSISTOR	Q2025	2SB709AR	TRANSISTOR
Q1093	2SD601AQ	TRANSISTOR	Q2026	2SB709AR	TRANSISTOR
Q1097	2SD601AQ	TRANSISTOR	Q2201	2SD601AQ	TRANSISTOR
Q1099	2SC2480S	TRANSISTOR	Q7001	2SD601AQ	TRANSISTOR
Q1101	2SA1462	TRANSISTOR	Q7002	2SD601AQ	TRANSISTOR
Q1102	2SB709AR	TRANSISTOR	Q7003	2SD601AQ	TRANSISTOR
Q1103	2SD601AQ	TRANSISTOR	Q7004	2SD601AQ	TRANSISTOR
Q1104	2SD601AQ	TRANSISTOR	Q7005	2SD601AQ	TRANSISTOR
Q1105	2SD601AQ	TRANSISTOR	Q7006	2SD601AQ	TRANSISTOR
Q1107	2SC2480S	TRANSISTOR	Q7007	2SD601AQ	TRANSISTOR
Q1109	2SA1462	TRANSISTOR	Q7008	2SD601AQ	TRANSISTOR
Q1110	2SB709AR	TRANSISTOR	Q7009	2SD602A-R	TRANSISTOR
Q1111	2SD601AQ	TRANSISTOR	Q7010	2SD601AQ	TRANSISTOR
Q1112	2SD601AQ	TRANSISTOR	Q7011	2SD601AQ	TRANSISTOR
Q1113	2SD601AQ	TRANSISTOR	Q7514	2SA1462	TRANSISTOR
Q1115	2SC2480S	TRANSISTOR	Q7515	2SA1462	TRANSISTOR
Q1117	2SA1462	TRANSISTOR	Q7516	2SA1462	TRANSISTOR
Q1118	2SB709AR	TRANSISTOR	Q7517	2SD601AQ	TRANSISTOR
Q1119	2SD601AQ	TRANSISTOR	Q7518	2SB709AR	TRANSISTOR
Q1120	2SD601AQ	TRANSISTOR	Q7519	2SD601AQ	TRANSISTOR
Q1122	2SD601AQ	TRANSISTOR	Q7520	2SB709AR	TRANSISTOR
Q1123	2SB709AR	TRANSISTOR	Q7521	2SD601AQ	TRANSISTOR
Q1124	2SD601AQ	TRANSISTOR	Q7522	2SB709AR	TRANSISTOR
Q1126	2SD601AQ	TRANSISTOR	Q7523	2SD601AQ	TRANSISTOR
Q1127	2SB709AR	TRANSISTOR	Q7524	2SD601AQ	TRANSISTOR
Q1128	2SD601AQ	TRANSISTOR	Q7525	2SD601AQ	TRANSISTOR
Q1130	2SD601AQ	TRANSISTOR	Q7526	2SD601AQ	TRANSISTOR
Q1131	2SB709AR	TRANSISTOR	Q7527	2SB709AR	TRANSISTOR
Q1132	2SD601AQ	TRANSISTOR	Q7528	2SD601AQ	TRANSISTOR

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q7529	2SD601AQ	TRANSISTOR	D2007	MA748	DIODE
Q7530	2SD601AQ	TRANSISTOR	D2008	MA748	DIODE
Q7531	2SD601AQ	TRANSISTOR	D2009	MA153A	DIODE
Q7532	2SB709AR	TRANSISTOR	D2010	MA153A	DIODE
Q7533	2SD601AQ	TRANSISTOR	D2011	MA153A	DIODE
Q7534	2SD601AQ	TRANSISTOR	D7001	MA152K	DIODE
Q7535	2SD601AQ	TRANSISTOR	D7002	MA152K	DIODE
Q7536	2SD601AQ	TRANSISTOR	D7003	MA3120	DIODE
Q7537	2SB709AR	TRANSISTOR	D7004	MA152K	DIODE
Q7538	2SD601AQ	TRANSISTOR	D7005	MA152K	DIODE
Q7539	2SD601AQ	TRANSISTOR	D7006	MA152K	DIODE
Q7540	2SD601AQ	TRANSISTOR	D7007	MA152K	DIODE
Q7541	2SD601AQ	TRANSISTOR	D7008	MA152K	DIODE
Q7542	2SB709AR	TRANSISTOR	D7009	MA152WA	DIODE
Q7601	2SD601AQ	TRANSISTOR	D7501	MA153A	DIODE
Q7602	2SD601AQ	TRANSISTOR	D7502	MA153A	DIODE
Q7603	2SD601AQ	TRANSISTOR	D7503	MA153A	DIODE
Q7604	2SD601AQ	TRANSISTOR	D7504	MA3150M	DIODE
Q7605	2SD601AQ	TRANSISTOR	D7505	MA3150M	DIODE
Q7606	2SB709AR	TRANSISTOR	D7506	MA3150M	DIODE
Q7701	2SB709AR	TRANSISTOR	D7507	MA3150M	DIODE
Q7702	2SD601AQ	TRANSISTOR	D7508	MA3056M	ZENER DIODE
Q7703	2SB709AR	TRANSISTOR	D7509	MA3056M	ZENER DIODE
Q7704	2SD601AQ	TRANSISTOR	D7510	MA153A	DIODE
Q7705	2SD601AQ	TRANSISTOR	D7511	MA153A	DIODE
Q7706	2SD601AQ	TRANSISTOR	D7512	MA153A	DIODE
Q7752	2SD601AQ	TRANSISTOR	D7513	MA3150M	DIODE
Q7801	2SD601AQ	TRANSISTOR	D7514	MA3150M	DIODE
Q7802	2SD601AQ	TRANSISTOR	D7515	MA3150M	DIODE
Q7805	2SB709AR	TRANSISTOR	D7516	MA3150M	DIODE
Q7806	2SD601AQ	TRANSISTOR	D7517	MA3056M	ZENER DIODE
Q7902	2SD601AQ	TRANSISTOR	D7518	MA3056M	ZENER DIODE
Q9201	2SK1938	TRANSISTOR	D7519	MA3056M	ZENER DIODE
Q9202	2SK1938	TRANSISTOR	D7520	MA3056M	ZENER DIODE
Q9203	2SC2497A	TRANSISTOR	D7521	MA152K	DIODE
Q9204	2SA1096A	TRANSISTOR	D7522	MA152K	DIODE
Q9205	2SD601AR	TRANSISTOR	D7523	MA152K	DIODE
Q9301	2SD601AR	TRANSISTOR	D7524	MA704A	DIODE
Q9302	2SD601AR	TRANSISTOR	D7525	MA3056M	ZENER DIODE
Q9303	2SD601AR	TRANSISTOR	D7526	MA152K	DIODE
Q9304	2SD601AR	TRANSISTOR	D7527	MA152K	DIODE
Q9305	2SD601AR	TRANSISTOR	D7528	MA152K	DIODE
DIODES			D7529	MA704A	DIODE
D1010	MA152K	DIODE	D7530	MA3056M	ZENER DIODE
D1011	MA3056M	ZENER DIODE	D7531	MA152K	DIODE
D1013	MA152K	DIODE	D7532	MA152K	DIODE
D1014	MA3075L	ZENER DIODE	D7533	MA152K	DIODE
D1015	MA152K	DIODE	D7534	MA704A	DIODE
D1016	MA3075L	ZENER DIODE	D7535	MA3056M	ZENER DIODE
D1017	MA3056M	ZENER DIODE	D7536	MA152K	DIODE
D1019	MA152K	DIODE	D7537	MA152K	DIODE
D1022	MA3033	DIODE	D7538	MA152K	DIODE
D1026	MA152K	DIODE	D7539	MA704A	DIODE
D1032	MA3120M	ZENER DIODE	D7540	MA3056M	ZENER DIODE
D1036	MA152K	DIODE	D7541	MA3100H	ZENER DIODE
D1037	MA28WA	DIODE	D7542	MA153A	DIODE
D1038	MA28WA	DIODE	D7543	MA153A	DIODE
D1039	MA28WA	DIODE	D7544	MA153A	DIODE
D2001	MA3056L	DIODE	D7545	MA3056M	ZENER DIODE
D2002	MA3056L	DIODE	D7546	MA3056M	ZENER DIODE
D2003	MA3056L	DIODE	D7547	MA152K	DIODE
D2004	MA152K	DIODE	D7548	MA152K	DIODE
D2005	MA152K	DIODE	D7549	MA152K	DIODE
D2006	MA748	DIODE	D7550	MA152K	DIODE
			D7601	MA3100H	ZENER DIODE
			D7602	MA3100H	ZENER DIODE
			D7603	MA3100H	ZENER DIODE
			D7604	MA3100H	ZENER DIODE
			D7605	MA3100H	ZENER DIODE





Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
LC2211	TAX10089	NOISE FILTER	R1041	ERJ6GEYJ102	M 1KOHM, J, 1/10W
LC2212	TAX10089	NOISE FILTER	R1042	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
LC2213	TAX10089	NOISE FILTER	R1043	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
LC2214	TAX10089	NOISE FILTER	R1044	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
LC2215	TAX10089	NOISE FILTER	R1045	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
LC2216	TAX10089	NOISE FILTER	R1046	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
LC2217	TAX10089	NOISE FILTER	R1047	ERJ6GEYJ473	M 47KOHM, J, 1/10W
LC2218	TAX10089	NOISE FILTER	R1048	ERJ6GEYJ473	M 47KOHM, J, 1/10W
LC2219	TAX10089	NOISE FILTER	R1049	ERJ6GEYJ273	M 27KOHM, J, 1/10W
LC2220	TAX10089	NOISE FILTER	R1051	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2221	TAX10089	NOISE FILTER	R1052	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2222	TAX10089	NOISE FILTER	R1053	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2223	TAX10089	NOISE FILTER	R1054	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2224	TAX10089	NOISE FILTER	R1055	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2225	TAX10089	NOISE FILTER	R1056	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2226	TAX10089	NOISE FILTER	R1057	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2227	TAX10089	NOISE FILTER	R1058	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2228	TAX10089	NOISE FILTER	R1059	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
LC2229	TAX10089	NOISE FILTER	R1060	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2230	TAX10089	NOISE FILTER	R1061	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC2231	TAX10089	NOISE FILTER	R1063	ERJ6GEYJ101	M 100 OHM, J, 1/10W
LC2232	TAX10089	NOISE FILTER	R1064	ERJ6GEYJ101	M 100 OHM, J, 1/10W
LC2233	TAX10089	NOISE FILTER	R1065	ERJ6GEYJ102	M 1KOHM, J, 1/10W
LC2234	TAX10089	NOISE FILTER	R1068	ERJ6GEYJ102	M 1KOHM, J, 1/10W
LC2235	TAX10089	NOISE FILTER	R1070	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
LC2236	TAX10089	NOISE FILTER	R1071	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC7001	EXCCET103U	EMI FILTER	R1072	ERJ6GEYJ561	M 560 OHM, J, 1/10W
LC7002	EXCCET103U	EMI FILTER	R1073	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC7003	EXCCET103U	EMI FILTER	R1074	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
LC7004	EXCCET103U	EMI FILTER	R1075	ERJ6ENF6800	M 680 OHM, 1/10W
LC7005	EXCCET103U	EMI FILTER	R1076	ERJ6ENF4700	M 470 OHM, 1/10W
LC7006	EXCCET103U	EMI FILTER	R1077	ERJ6GEYJ331	M 330 OHM, J, 1/10W
LC7007	EXCCET103U	EMI FILTER	R1078	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
LC7008	EXCCET103U	EMI FILTER	R1081	ERJ6GEYJ101	M 100 OHM, J, 1/10W
LC7501	TAC52101T50V	C 100PF, 50V	R1082	ERJ6GEY0R00	M 0 OHM, J, 1/10W
LC7502	TAC52101T50V	C 100PF, 50V	R1083	ERJ6GEYJ103	M 10KOHM, J, 1/10W
LC7701	TAC52101T50V	C 100PF, 50V	R1084	ERJ6GEYJ223	M 22KOHM, J, 1/10W
LC7702	TAC52101T50V	C 100PF, 50V	R1085	ERJ6GEYJ101	M 100 OHM, J, 1/10W
LC7703	TAC52101T50V	C 100PF, 50V	R1086	ERJ6GEYJ102	M 1KOHM, J, 1/10W
LC7704	TAC52101T50V	C 100PF, 50V	R1087	ERJ6GEYJ473	M 47KOHM, J, 1/10W
TRANSFORMERS			R1088	ERJ6GEYJ103	M 10KOHM, J, 1/10W
Δ T9201	TLPF068-3	CHOKE TRANS	R1089	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
Δ T9301	ETS29AK1U6AC	SWITCHING TRANS.	R1090	ERJ6GEYJ151	M 150 OHM, J, 1/10W
RESISTORS			R1091	ERJ6GEYJ221	M 220 OHM, J, 1/10W
R1000	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1093	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W
R1001	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1094	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1003	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1095	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1004	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1096	ERJ6GEYJ273	M 27KOHM, J, 1/10W
R1005	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1097	ERJ6GEYJ272	M 27KOHM, J, 1/10W
R1010	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R1098	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R1011	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R1099	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1012	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R1100	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1013	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1101	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1014	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R1102	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1016	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1103	ERJ6GEYJ201	M 200 OHM, J, 1/10W
R1037	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R1104	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1038	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1105	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W
R1039	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1106	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R1040	ERJ6GEYJ183	M 18KOHM, J, 1/10W	R1107	ERJ6GEYJ201	M 200 OHM, J, 1/10W
			R1108	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1109	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1110	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1111	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1112	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1113	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
			R1114	ERJ6GEY0R00	M 0 OHM, J, 1/10W
			R1117	ERJ6GEY0R00	M 0 OHM, J, 1/10W
			R1118	ERJ6GEYJ821	M 820 OHM, J, 1/10W
			R1119	ERJ6GEYJ103	M 10KOHM, J, 1/10W



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1120	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	R1223	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1125	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	R1224	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1126	ERJ6GEYJ151	M 150 OHM, J, 1/10W	R1228	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1127	ERJ6GEYJ151	M 150 OHM, J, 1/10W	R1229	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1128	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	R1231	ERJ6GEYJ683	M 68KOHM, J, 1/10W
R1129	ERJ6ENF8200	M 820 OHM, 1/10W	R1232	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R1130	ERJ6ENF5601	M 5.6KOHM, 1/10W	R1233	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1131	ERJ6ENF1001	M 1KOHM, 1/10W	R1234	ERJ6ENF3300	M 330 OHM, 1/10W
R1132	ERJ6ENF5600	M 560 OHM, 1/10W	R1235	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1133	ERJ6GEYJ151	M 150 OHM, J, 1/10W	R1236	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1134	ERJ6ENF8200	M 820 OHM, 1/10W	R1237	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1135	ERJ6GEYJ151	M 150 OHM, J, 1/10W	R1238	ERJ6GEYJ471	M 470 OHM, J, 1/10W
R1136	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R1239	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1156	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1240	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1157	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R1242	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1158	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R1243	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1159	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1244	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1160	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1245	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1161	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1246	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1162	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1247	ERJ6GEYJ224	M 220KOHM, J, 1/10W
R1163	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1248	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R1164	ERJ6ENF3600	M 3600OHM, 1/10W	R1253	ERJ6GEYJ151	M 150 OHM, J, 1/10W
R1165	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1254	ERJ6GEYJ151	M 150 OHM, J, 1/10W
R1166	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1255	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1167	ERJ6ENF1001	M 1KOHM, 1/10W	R1256	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1168	ERJ6ENF4700	M 470 OHM, 1/10W	R1257	ERJ6GEYJ151	M 150 OHM, J, 1/10W
R1169	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1258	ERJ6GEYJ151	M 150 OHM, J, 1/10W
R1170	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1259	ERJ6GEYJ391	M 390 OHM, J, 1/10W
R1171	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1260	ERJ6GEYJ274	M 270KOHM, J, 1/10W
R1172	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1261	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R1173	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1262	ERJ6GEYJ153	M 15KOHM, J, 1/10W
R1174	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R1263	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1175	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1264	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1177	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1265	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1179	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1266	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1180	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	R1267	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W
R1181	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1268	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1182	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R1269	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1183	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	R1270	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1184	ERJ6GEYJ393	M 39KOHM, J, 1/10W	R1272	ERJ6GEYJ362	M 3.6KOHM, J, 1/10W
R1185	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1273	ERJ6GEYJ681	M 680 OHM, J, 1/10W
R1186	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1274	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W
R1187	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1275	ERJ6GEYJ153	M 15KOHM, J, 1/10W
R1188	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	R1276	ERJ6GEYJ475	M 4.7MOHM, J, 1/10W
R1189	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R1277	ERJ6GEYJ475	M 4.7MOHM, J, 1/10W
R1190	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1278	ERJ6GEYJ242	M 2.4KOHM, J, 1/10W
R1191	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1279	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1192	ERJ6ENF5600	M 560 OHM, 1/10W	R1281	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1193	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1283	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R1194	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1285	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1195	ERJ6ENF1201	M 1.2KOHM, 1/10W	R1286	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1196	ERJ6ENF4700	M 470 OHM, 1/10W	R1287	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1197	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1288	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1198	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	R1289	ERJ6GEYJ563	M 56KOHM, J, 1/10W
R1201	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1290	ERJ6GEYJ683	M 68KOHM, J, 1/10W
R1202	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1291	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1203	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R1292	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1204	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1293	ERJ6GEYJ563	M 56KOHM, J, 1/10W
R1205	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R1295	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R1206	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1296	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R1207	ERJ6ENF1001	M 1KOHM, 1/10W	R1297	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1208	ERJ6ENF8200	M 820 OHM, 1/10W	R1298	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W
R1210	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1299	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R1211	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1300	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R1212	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	R1314	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1219	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1315	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1220	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1316	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1221	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1323	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1222	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1324	ERJ6GEYJ331	M 330 OHM, J, 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1325	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1491	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R1326	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1492	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1327	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1493	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1334	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1494	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R1335	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1495	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1336	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1496	ERJ6GEYJ820	M 82 OHM, J, 1/10W
R1337	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1497	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1338	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R1498	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1340	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R1499	ERJ6GEYJ330	M 33 OHM, J, 1/10W
R1342	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1500	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R1343	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1501	ERJ6GEYJ681	M 680 OHM, J, 1/10W
R1344	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1502	ERJ6GEYJ391	M 390 OHM, J, 1/10W
R1345	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1503	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R1346	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R1504	ERJ6GEYJ681	M 680 OHM, J, 1/10W
R1347	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R1505	ERJ6GEYJ221	M 220 OHM, J, 1/10W
R1348	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1510	ERJ6GEYJ681	M 680 OHM, J, 1/10W
R1350	ERJ6GEYJ121	M 120 OHM, J, 1/10W	R1511	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R1351	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1520	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R1352	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	R1521	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1353	ERJ6GEYJ121	M 120 OHM, J, 1/10W	R1522	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1354	ERJ6GEYJ121	M 120 OHM, J, 1/10W	R1523	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R1359	ERJ6GEYJ121	M 120 OHM, J, 1/10W	R1524	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R1360	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R1525	ERJ6GEYJ820	M 82 OHM, J, 1/10W
R1368	ERJ6GEYJ121	M 120 OHM, J, 1/10W	R1526	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1371	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1527	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1372	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1528	ERJ6GEYJ330	M 33 OHM, J, 1/10W
R1373	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1529	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R1375	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1530	ERJ6GEYJ681	M 680 OHM, J, 1/10W
R1378	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1533	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1380	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1534	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1387	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1535	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1388	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1536	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R1389	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1537	ERJ6GEYJ104	M 100KOHM, J, 1/10W
R1390	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1538	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R1391	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1541	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1392	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1542	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1393	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1543	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1394	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1544	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R1399	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1545	ERJ6GEYJ104	M 100KOHM, J, 1/10W
R1400	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1546	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R1401	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1549	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1402	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1550	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1403	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1551	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1404	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1552	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R1405	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1553	ERJ6GEYJ104	M 100KOHM, J, 1/10W
R1427	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R1554	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R1444	ERJ6GEYJ391	M 390 OHM, J, 1/10W	R1555	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1445	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R1556	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1446	ERJ6GEYJ681	M 680 OHM, J, 1/10W	R1557	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R1447	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1562	ERJ6ENF5600	M 560 OHM, 1/10W
R1452	ERJ6GEYJ681	M 680 OHM, J, 1/10W	R1563	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R1453	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R1564	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1462	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R1566	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1463	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1567	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1464	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R1569	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1465	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R1571	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1466	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	R1572	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1467	ERJ6GEYJ820	M 82 OHM, J, 1/10W	R1574	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1468	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R1576	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R1469	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R1577	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1470	ERJ6GEYJ330	M 33 OHM, J, 1/10W	R1580	ERJ6GEYJ563	M 56KOHM, J, 1/10W
R1471	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R1581	EVM38GA00B22	CONTROL 200 OHMB
R1472	ERJ6GEYJ681	M 680 OHM, J, 1/10W	R1583	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1473	ERJ6GEYJ391	M 390 OHM, J, 1/10W	R1584	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1474	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R1585	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1475	ERJ6GEYJ681	M 680 OHM, J, 1/10W	R1586	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1476	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R1587	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1481	ERJ6GEYJ681	M 680 OHM, J, 1/10W	R1588	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R1482	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R1589	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1594	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	R2053	ERJ6ENF1002	M 9.1KOHM, J, 1/10W
R1596	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2055	ERJ6ENF1801	M 1.3KOHM, J, 1/10W
R1597	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R2056	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1600	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R2057	ERJ6GEYJ513	M 51KOHM, J, 1/10W
R1606	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W	R2058	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1607	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R2059	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1630	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R2060	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1641	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R2061	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1643	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R2062	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1650	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R2063	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1651	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W	R2066	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1652	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W	R2067	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1653	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2068	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1655	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2069	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1657	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2070	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R1659	ERJ6GEYJ123	M 12KOHM, J, 1/10W	R2078	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R1660	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	R2080	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R1661	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2081	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R1662	ERJ6ENF1201	M 1.2KOHM, 1/10W	R2082	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R1663	ERJ6ENF8200	M 820 OHM, 1/10W	R2084	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1664	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2085	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1665	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R2086	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1666	ERJ6ENF1001	M 1KOHM, 1/10W	R2087	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1667	ERJ6ENF1001	M 1KOHM, 1/10W	R2088	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1668	ERJ6ENF1501	M 1.5KOHM, 1/10W	R2089	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R1669	ERJ6ENF1201	M 1.2KOHM, 1/10W	R2090	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R1670	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2091	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R1671	ERJ6GEYJ271	M 270 OHM, J, 1/10W	R2092	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R1672	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2093	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R2001	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R2094	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R2002	EVM38GA00B14	CONTROL 100KOHMB	R2095	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W
R2003	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R2096	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2004	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2097	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2005	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2114	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2006	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2115	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R2010	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R2116	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2011	EVM38GA00B14	CONTROL 100KOHMB	R2117	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2012	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R2118	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R2013	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2119	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2014	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2120	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2015	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2121	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2019	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R2122	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2020	EVM38GA00B14	CONTROL 100KOHMB	R2123	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2021	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R2124	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2022	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2125	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2023	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2126	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2024	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R2127	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R2028	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R2128	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2029	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W	R2129	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W
R2030	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2130	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R2031	ERJ6GEYJ510	M 51 OHM, 1/10W	R2131	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2032	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2132	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R2033	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W	R2133	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R2034	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W	R2134	ERJ6GEYJ470	M 47 OHM, J, 1/10W
R2035	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2135	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R2036	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2136	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R2037	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W	R2139	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2038	ERJ6GEYJ2R2	M 2.2 OHM, J, 1/10W	R2140	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2039	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2141	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2040	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R2142	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2042	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R2143	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2043	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R2144	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2045	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R2146	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2046	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R2147	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R2047	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R2150	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2048	ERJ6GEYJ513	M 51KOHM, J, 1/10W	R2151	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2049	ERJ6GEYJ513	M 51KOHM, J, 1/10W	R2152	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2050	ERJ6ENF4701	M 10KOHM, J, 1/10W	R2153	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2052	ERJ6ENF6801	M 12KOHM, J, 1/10W	R2154	ERJ6GEYJ560	M 56 OHM, J, 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R2155	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2245	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2156	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2246	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2157	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2247	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2158	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2248	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2159	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2249	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2160	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R2250	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2161	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2251	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2162	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2252	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2163	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2253	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2164	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2254	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2165	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2255	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2166	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2256	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2167	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R2257	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2168	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R2258	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2169	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R2259	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2171	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R2260	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2172	ERJ6GEYJ470	M 47 OHM, J, 1/10W	R2261	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2173	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2262	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2174	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2263	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2175	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2264	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2176	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2265	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2177	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2266	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2178	ERJ6GEYJ474	M 470 KOHM, J, 1/10W	R2267	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2180	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2268	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2181	ERJ6GEYJ332	M 3.3 KOHM, J, 1/10W	R2269	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2182	ERJ6GEYJ222	M 2.2 KOHM, J, 1/10W	R2270	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2201	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2271	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2202	ERJ6GEYJ134	M 130 KOHM, J, 1/10W	R2272	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2203	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2273	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2204	ERJ6GEYJ103	M 10 KOHM, J, 1/10W	R2274	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2205	ERJ6GEYJ472	M 4.7 KOHM, J, 1/10W	R2275	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2206	ERJ6GEYJ472	M 4.7 KOHM, J, 1/10W	R2276	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2207	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2277	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2208	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2278	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2209	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2279	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2210	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R2280	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2211	ERJ6GEYJ622	M 6.2 KOHM, J, 1/10W	R2281	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2212	ERJ6GEYJ103	M 10 KOHM, J, 1/10W	R2282	ERJ6GEYJ220	M 22 OHM, J, 1/10W
R2214	ERJ6GEYJ272	M 2.7 KOHM, J, 1/10W	R2283	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R2215	ERJ6GEYJ332	M 3.3 KOHM, J, 1/10W	R2284	ERJ6GEYJ221	M 220 OHM, J, 1/10W
R2216	ERJ6GEYJ102	M 1 KOHM, J, 1/10W	R2285	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2217	ERJ6GEYJ134	M 130 KOHM, J, 1/10W	R2286	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2218	ERJ6GEYJ222	M 2.2 KOHM, J, 1/10W	R2287	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2219	ERJ6GEYJ562	M 5.6 KOHM, J, 1/10W	R2288	ERJ6GEYJ560	M 56 OHM, J, 1/10W
R2220	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2289	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R2221	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2290	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R2222	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2291	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2223	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2292	ERJ6GEYJ102	M 1 KOHM, J, 1/10W
R2224	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2293	ERJ6GEYJ102	M 1 KOHM, J, 1/10W
R2225	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2322	ERJ6GEYJ563	M 56 KOHM, J, 1/10W
R2226	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2323	ERJ6GEYJ563	M 56 KOHM, J, 1/10W
R2227	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2324	ERJ6GEYJ563	M 56 KOHM, J, 1/10W
R2228	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2325	ERJ6GEYJ563	M 56 KOHM, J, 1/10W
R2229	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2326	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2230	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R2327	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R2231	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2329	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R2232	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2330	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R2233	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2338	ERJ6GEYJ221	M 220 OHM, J, 1/10W
R2234	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R2341	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R2235	ERJ6GEYJ102	M 1 KOHM, J, 1/10W	R2342	ERJ6GEY0R00	M 0 OHM, J, 1/10W
R2236	ERJ6GEYJ102	M 1 KOHM, J, 1/10W	R7001	ERJ6GEYJ562	M 5.6 KOHM, J, 1/10W
R2237	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7002	ERJ6GEYJ103	M 10 KOHM, J, 1/10W
R2238	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7003	ERJ6GEYJ103	M 10 KOHM, J, 1/10W
R2239	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7004	ERJ6GEYJ562	M 5.6 KOHM, J, 1/10W
R2240	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7005	ERJ6GEYJ562	M 5.6 KOHM, J, 1/10W
R2241	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7006	ERJ6GEYJ103	M 10 KOHM, J, 1/10W
R2242	ERJ6GEYJ220	M 22 OHM, J, 1/10W	R7007	ERJ6GEYJ103	M 10 KOHM, J, 1/10W
R2243	ERJ6GEYJ151	M 150 OHM, J, 1/10W	R7008	ERJ6GEYJ562	M 5.6 KOHM, J, 1/10W
R2244	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R7009	ERJ6GEYJ103	M 10 KOHM, J, 1/10W



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R7010	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7086	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7011	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R7087	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7012	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7088	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7013	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7089	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7014	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7090	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7015	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7091	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7016	ERJ6GEY222	M 2.2KOHM, J, 1/10W	R7092	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7017	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7093	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7018	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7094	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7019	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7095	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7020	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7096	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7021	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7097	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R7022	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7098	ERJ6GEYJ474	M 470KOHM, J, 1/10W
R7023	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7103	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7025	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7104	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7026	ERJ6GEYJ100	M 10 OHM, J, 1/10W	R7105	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7028	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7106	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7029	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7107	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7030	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7108	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7031	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7109	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R7032	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7110	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7033	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R7111	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7034	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7112	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7035	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7113	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7037	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7114	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7038	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7115	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7039	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7116	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W
R7040	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7117	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7041	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7118	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7042	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7119	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7043	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7120	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7045	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7121	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7046	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7122	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7047	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7123	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7048	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7124	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7049	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7125	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7051	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7126	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7052	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7129	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R7053	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7130	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7054	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7131	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7055	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7132	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7056	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7133	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7057	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7134	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7058	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R7135	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7059	ERJ6GEY0R00	M 0 OHM, J, 1/10W	R7136	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7060	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7137	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7061	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7138	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7062	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7139	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7063	ERJ6GEYJ561	M 560 OHM, J, 1/10W	R7140	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7064	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7141	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7065	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7142	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7066	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7143	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7068	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7144	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7069	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7145	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7070	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7146	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7071	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7147	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7072	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7148	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7073	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7149	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7074	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7150	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7075	ERJ6GEYJ183	M 18KOHM, J, 1/10W	R7151	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7076	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	R7152	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7077	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	R7153	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7078	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7154	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7080	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7155	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7081	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R7156	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7082	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7157	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7083	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R7158	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7084	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7159	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7085	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7160	ERJ6GEYJ101	M 100 OHM, J, 1/10W



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R7161	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7574	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7162	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7575	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7180	ERJ6GEYJ474	M 470KOHM, J, 1/10W	R7576	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7501	ERJ6ENF75R0	M 75 OHM, 1/10W	R7577	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7502	ERJ6ENF75R0	M 75 OHM, 1/10W	R7578	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7503	ERJ6ENF75R0	M 75 OHM, 1/10W	R7579	ERJ6GEYJ684	M 680KOHM, J, 1/10W
R7507	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7580	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7508	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7581	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7509	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7582	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7510	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7583	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7511	ERJ6GEYJ125	M 1.2KOHM, J, 1/10W	R7584	ERJ6GEYJ333	M 33KOHM, J, 1/10W
R7512	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7585	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7513	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7586	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7514	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R7587	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7515	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	R7588	ERJ6GEYJ821	M 820 OHM, J, 1/10W
R7516	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7589	ERJ6GEYJ561	M 560 OHM, J, 1/10W
R7517	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7590	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W
R7518	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7591	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7519	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7592	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R7520	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R7593	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R7521	ERJ6GEYJ125	M 1.2KOHM, J, 1/10W	R7594	ERJ6GEYJ121	M 120 OHM, J, 1/10W
R7522	ERJ6GEYJ273	M 27KOHM, J, 1/10W	R7601	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7523	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7602	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7524	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R7603	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7525	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	R7604	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7526	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R7605	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7527	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R7606	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7528	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7607	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7529	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7608	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7530	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7609	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7531	ERJ6ENF75R0	M 75 OHM, 1/10W	R7610	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7532	ERJ6ENF75R0	M 75 OHM, 1/10W	R7611	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7533	ERJ6ENF75R0	M 75 OHM, 1/10W	R7612	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7534	ERJ6ENF75R0	M 75 OHM, 1/10W	R7613	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7535	ERJ6ENF75R0	M 75 OHM, 1/10W	R7614	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7539	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7615	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7540	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7616	ERJ6GEYJ124	M 120KOHM, J, 1/10W
R7541	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7617	ERJ6GEYJ154	M 150KOHM, J, 1/10W
R7542	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7618	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7543	ERJ6GEYJ125	M 1.2KOHM, J, 1/10W	R7619	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7544	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7620	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7545	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7621	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7546	ERJ6GEYJ221	M 220 OHM, J, 1/10W	R7622	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7547	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	R7623	ERJ6GEYJ104	M 100KOHM, J, 1/10W
R7548	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7624	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7549	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7625	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7550	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7626	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7551	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7627	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7552	ERJ6GEYJ560	M 56 OHM, J, 1/10W	R7630	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7553	ERJ6GEYJ125	M 1.2KOHM, J, 1/10W	R7631	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7554	ERJ6GEYJ273	M 27KOHM, J, 1/10W	R7632	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7555	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7633	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7556	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7634	ERJ6GEYJ471	M 470 OHM, J, 1/10W
R7557	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7635	ERJ6GEYJ471	M 470 OHM, J, 1/10W
R7558	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R7638	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7559	ERJ6GEYJ680	M 68 OHM, J, 1/10W	R7639	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7560	ERJ6GEYJ680	M 68 OHM, J, 1/10W	R7640	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7561	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R7641	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R7562	ERJ6GEYJ821	M 820 OHM, J, 1/10W	R7642	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7563	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7643	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7564	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7644	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7565	ERJ6GEYJ680	M 68 OHM, J, 1/10W	R7645	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7566	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7646	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W
R7567	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7647	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7568	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7648	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7569	ERJ6GEYJ471	M 470 OHM, J, 1/10W	R7649	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7570	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	R7650	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7571	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R7651	ERJ6GEYJ223	M 22KOHM, J, 1/10W
R7572	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R7652	ERJ6GEYJ223	M 22KOHM, J, 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R7653	ERJ6GEYJ153	M 15KOHM, J, 1/10W	R7819	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W
R7655	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7820	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W
R7656	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7821	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7657	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	R7822	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R7658	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7823	ERJ6GEYJ100	M 10 OHM, J, 1/10W
R7701	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R7824	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R7702	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R7825	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W
R7703	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R7826	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7704	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R7827	ERQ1CJP2R7S	F 2.7 OHM, J, 1W
R7705	ERJ6GEYJ104	M 100KOHM, J, 1/10W	R7851	ERJ6ENF68R0	M 68 OHM, 1/10W
R7706	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7852	ERJ6ENF68R0	M 68 OHM, 1/10W
R7707	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7853	ERJ6ENF68R0	M 68 OHM, 1/10W
R7708	ERJ6GEYJ102	M 1KOHM, J, 1/10W	R7854	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7709	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7855	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7710	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7856	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7711	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7857	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7712	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7858	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7713	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R7859	ERJ6ENF1001	M 1KOHM, 1/10W
R7714	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	R7860	ERJ6ENF1001	M 1KOHM, 1/10W
R7715	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7861	ERJ6ENF1001	M 1KOHM, 1/10W
R7716	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R7862	ERJ6ENF1001	M 1KOHM, 1/10W
R7717	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7863	ERJ6ENF1001	M 1KOHM, 1/10W
R7718	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7864	ERJ6ENF1001	M 1KOHM, 1/10W
R7719	ERJ6GEYJ331	M 330 OHM, J, 1/10W	R7865	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7720	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7866	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7721	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7867	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7722	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7868	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7723	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7869	ERJ6GEYJ473	M 47KOHM, J, 1/10W
R7724	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R7870	ERJ6GEYJ183	M 18KOHM, J, 1/10W
R7725	ERJ6GEYJ333	M 33KOHM, J, 1/10W	R7871	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7726	ERJ6GEYJ333	M 33KOHM, J, 1/10W	R7872	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7727	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	R7873	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7728	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R7874	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W
R7729	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R7875	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7730	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7876	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7731	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7901	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7732	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7902	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7733	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7905	ERJ6GEYJ102	M 1KOHM, J, 1/10W
R7734	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7906	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R7735	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7907	ERJ6GEYJ331	M 330 OHM, J, 1/10W
R7736	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7908	ERJ6GEYJ221	M 220 OHM, J, 1/10W
R7737	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R7909	ERJ6GEYJ101	M 100 OHM, J, 1/10W
R7738	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9101	ERC12GK474	S 470KOHM, K, 1/2W
R7739	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9102	ERD75TAJ825	C 8.2MOHM, J, 3/4W
R7740	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9201	ERU5TAK6R8	F 6.8 OHM, 5W
R7741	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9202	UN11010	PROTECTOR
R7742	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9203	ERG2SJ151	M 150 OHM, 2W
R7743	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9204	ERDS1FJ820	C 82 OHM, J, 1/2W
R7744	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9205	ERDS1FJ150	C 15 OHM, J, 1/2W
R7751	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9206	ERDS1FJ820	C 82 OHM, J, 1/2W
R7755	ERJ6GEYJ103	M 10KOHM, J, 1/10W	R9207	ERDS1FJ150	C 15 OHM, J, 1/2W
R7756	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R9208	ERDS2TJ273	C 27KOHM, J, 1/4W
R7757	ERJ6GEYJ223	M 22KOHM, J, 1/10W	R9209	EROS2CKF1203	M 120KOHM, F, 1/4W
R7801	ERJ6GEYJ273	M 27KOHM, J, 1/10W	R9210	EROS2CKF1103	M 110KOHM, F, 1/4W
R7802	ERJ6GEYJ154	M 150KOHM, J, 1/10W	R9211	EROS2CKF1203	M 120KOHM, F, 1/4W
R7803	ERJ6GEYJ154	M 150KOHM, J, 1/10W	R9212	ERDS2TC0	C 0 OHM, 1/4W
R7804	ERJ6GEYJ184	M 180KOHM, J, 1/10W	R9214	ERG2SJ221H	M 220 OHM, J, 2W
R7805	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R9215	ERF5EKR10	W 0.1 OHM, 5W
R7806	ERJ6GEYJ333	M 33KOHM, J, 1/10W	R9216	ERG3SJ473	M 47K OHM, J, 3W
R7807	ERJ6GEYJ273	M 27KOHM, J, 1/10W	R9217	ERDS2TJ100	C 10 OHM, J, 1/4W
R7808	ERJ6GEYJ154	M 150KOHM, J, 1/10W	R9218	ERDS2TJ472	C 4.7KOHM, J, 1/4W
R7809	ERJ6GEYJ154	M 150KOHM, J, 1/10W	R9219	ERJ6GEYJ820	M 82 OHM, J, 1/10W
R7810	ERJ6GEYJ184	M 180KOHM, J, 1/10W	R9220	ERJ6ENF2742	M 27.4KOHM, 1/10
R7811	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R9221	ERDS2TJ100	C 10 OHM, J, 1/4W
R7812	ERJ6GEYJ333	M 33KOHM, J, 1/10W	R9222	ERDS2TJ224	C 220KOHM, J, 1/4W
R7814	ERJ6GEYJ473	M 47KOHM, J, 1/10W	R9223	ERDS2TJ274	C 270KOHM, J, 1/4W
R7816	ERJ6GEYJ101	M 100 OHM, J, 1/10W	R9224	ERJ6GEYJ103	M 10KOHM, J, 1/10W
R7817	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	R9225	ERDS2TJ332	C 3.3KOHM, J, 1/4W
R7818	ERJ6GEYJ182	M 1.8KOHM, J, 1/10W	R9226	EROS2CKF1801	M 1.8KOHM, F, 1/4W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R9227	ERJ6GEYJ684	M 680KOHM, J, 1/10W	C1009	ECUX1H103KBX	C 0.01UF, K, 50V
R9228	ER0S2CKF1203	M 120KOHM, F, 1/4W	C1010	ECEA1HKA010	E 1UF, 50V
R9229	ER0S2CKF1203	M 120KOHM, F, 1/4W	C1011	ECEA1HKA010	E 1UF, 50V
R9230	ER0S2CKF1003	M 100KOHM, F, 1/4W	C1012	ECUX1H103KBX	C 0.01UF, K, 50V
R9231	ER0S2CKF3902	M 39KOHM, F, 1/4W	C1013	ECEA1HKAR47	E 0.47UF, 50V
R9232	ERDS2TJ332	C 3.3KOHM, J, 1/4W	C1014	ECUX1H101JCX	C 100PF, J, 50V
R9233	ER0S2CKF1101	M 1.1KOHM, F, 1/4W	C1015	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9234	ERJ6GEYJ105	M 1MOHM, J, 1/10W	C1016	ECUX1H102JCX	C 1000PF, J, 50V
R9235	ERJ6GEYJ393	M 39KOHM, J, 1/10W	C1017	ECUX1H102JCX	C 1000PF, J, 50V
R9236	ERJ6GEYJ183	M 18KOHM, J, 1/10W	C1018	ECUX1H101JCX	C 100PF, J, 50V
R9237	ERF5EKR10	W 0.1 OHM, 5W	C1020	TAC16SA33MF1	ELECTROLYTIC CAPA
R9238	ERG3SJ823	M 82KOHM, J, 3W	C1021	ECUX1H103KBX	C 0.01UF, K, 50V
R9239	ERDS2TJ220	C 22 OHM, J, 1/4W	C1022	ECEA1EKA470	E 47UF, 25V
R9240	ERDS2TJ102	C 1KOHM, J, 1/4W	C1023	ECUX1H103KBX	C 0.01UF, K, 50V
R9241	ERDS2TJ392	C 3.9KOHM, J, 1/4W	C1024	ECEA1HKA220	E 22UF, 50V
R9242	ERG1SJ100P	M 10OHM, J, 1W	C1025	ECUX1H103KBX	C 0.01UF, K, 50V
R9243	ERDS2TJ822	C 8.2KOHM, J, 1/4W	C1026	ECEA1CKA101	E 100UF, 16V
R9244	ERG3SJ104	M 100KOHM, J, 3W	C1027	ECUX1H103KBX	C 0.01UF, K, 50V
R9245	ERG1FJS220D	M 22 OHM, 1W	C1028	ECEA1AKA470	E 47UF, 10V
R9246	ERD25FJ102	C 1KOHM, J, 1/4W	C1029	ECUX1H103KBX	C 0.01UF, K, 50V
R9247	ERX2SJR68H	M 0.68 OHM, J, 2W	C1030	ECEA1CKA101	E 100UF, 16V
R9248	ERDS2TJ101	C 100 OHM, J, 1/4W	C1031	ECEA1VKA470	E 47UF, 35V
R9250	ER0S2CKF1203	M 120KOHM, F, 1/4W	C1032	ECEA1CKA101	E 100UF, 16V
R9251	ER0S2CKF1203	M 120KOHM, F, 1/4W	C1033	ECUX1H103KBX	C 0.01UF, K, 50V
R9252	ER0S2CKF1203	M 120KOHM, F, 1/4W	C1034	ECUX1H102JCX	C 1000PF, J, 50V
R9253	ER0S2CKF4422	M 44.2KOHM, F, 1/4W	C1035	ECUX1H103KBX	C 0.01UF, K, 50V
R9254	ERJ6GEYJ102	M 1KOHM, J, 1/10W	C1036	ECEA1CKA101	E 100UF, 16V
R9255	ERJ6GEYJ102	M 1KOHM, J, 1/10W	C1037	ECUX1H103KBX	C 0.01UF, K, 50V
R9256	ER0S2CKF5601	M 5.6KOHM, F, 1/4W	C1039	ECUX1H103KBX	C 0.01UF, K, 50V
R9257	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1042	ECUX1H103KBX	C 0.01UF, K, 50V
R9258	ERDS2TJ100	C 10 OHM, J, 1/4W	C1043	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9301	ERDS2TJ332	C 3.3KOHM, J, 1/4W	C1044	ECUX1H101JCX	C 100PF, J, 50V
R9302	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1045	TCUY1C474KBM	C 0.47UF, 16V
R9303	ERJ6GEYJ101	M 100 OHM, J, 1/10W	C1046	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9304	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1047	ECEA1CKA101	E 100UF, 16V
R9305	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1048	ECUX1H103KBX	C 0.01UF, K, 50V
R9306	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1049	ECEA1HKA010	E 1UF, 50V
R9307	ERJ6GEYJ223	M 22KOHM, J, 1/10W	C1050	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9308	ERDS2TJ221	C 220 OHM, J, 1/4W	C1052	ECUX1H103KBX	C 0.01UF, K, 50V
R9309	ERDS2TJ332	C 3.3KOHM, J, 1/4W	C1053	ECUX1H103KBX	C 0.01UF, K, 50V
R9310	ERJ6GEYJ223	M 22KOHM, J, 1/10W	C1054	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9311	ERJ6GEYJ223	M 22KOHM, J, 1/10W	C1055	ECEA1CKA101	E 100UF, 16V
R9312	ERJ6ENF1271	M 1.27KOHM, 1/10W	C1056	ECEA1CKA101	E 100UF, 16V
R9313	ERJ6GEYJ151	M 150 OHM, J, 1/10W	C1057	ECUX1H104ZFX	C 0.1UF, Z, 50V
R9314	ERJ6ENF1851	M 1.85KOHM, 1/10W	C1059	ECUX1H220JCX	C 22PF, J, 50V
R9315	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	C1060	ECUX1H220JCX	C 22PF, J, 50V
R9316	ERJ6GEYJ102	M 1KOHM, J, 1/10W	C1062	ECUX1H180JCX	C 18PF, J, 50V
R9317	ERJ6GEYJ101	M 100 OHM, J, 1/10W	C1063	ECUX1H180JCX	C 18PF, J, 50V
R9318	ERJ6ENF2871	M 2.87KOHM, 1/10W	C1066	ECEA1HKA220	E 22UF, 50V
R9319	ERJ6ENF1101	M 1.1KOHM, 1/10W	C1067	ECEA1CKA101	E 100UF, 16V
R9320	ERJ6ENF3001	M 3KOHM, 1/10W	C1068	ECUX1H103KBX	C 0.01UF, K, 50V
R9321	ERDS2TJ562	C 5.6KOHM, J, 1/4W	C1071	ECEA1VKA470	E 47UF, 35V
R9322	ERJ6GEYJ243	M 24KOHM, J, 1/10W	C1072	ECEA1CKN330	E 33UF, 16V
R9323	ERDS2TJ823	C 82KOHM, J, 1/4W	C1073	ECEA1CKA470	E 47UF, 16V
R9324	ERJ6GEYJ473	M 47KOHM, J, 1/10W	C1074	ECUX1H103KBX	C 0.01UF, K, 50V
R9325	ERG2SJ151	M 150 OHM, 2W	C1075	ECEA1VKA470	E 47UF, 35V
R9326	ERDS2TJ332	C 3.3KOHM, J, 1/4W	C1076	ECEA1CKN330	E 33UF, 16V
R9327	ERJ6GEYJ223	M 22KOHM, J, 1/10W	C1077	ECEA1CKN220	E 22UF, 16V
R9328	ERJ6GEYJ223	M 22KOHM, J, 1/10W	C1078	ECUX1H103KBX	C 0.01UF, K, 50V
R9329	ERJ6ENF2802	M 38K OHM, 1/10W	C1079	ECEA1CKN330	E 33UF, 16V
R9330	ERJ6ENF2002	M 20KOHM, 1/10W	C1080	ECEA1CKN330	E 33UF, 16V
			C1081	ECEA1VKA470	E 47UF, 35V
			C1083	ECUX1H101JCX	C 100PF, J, 50V
			C1089	ECUX1H103KBX	C 0.01UF, K, 50V
			C1090	ECEA1EKN4R7	E 4.7UF, 25V
			C1091	ECEA1EKN4R7	E 4.7UF, 25V
			C1092	ECUX1H680JCX	C 68PF, J, 50V
			C1093	ECUX1H221JCX	C 220PF, J, 50V
			C1094	ECUX1H221JCX	C 220PF, J, 50V
CAPACITORS					
C1006	ECUX1H101JCX	C 100PF, J, 50V			
C1007	ECUX1H101JCX	C 100PF, J, 50V			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C1095	TCUY1C334KBM	C 0.33UF, 16V	C1170	ECEA1HKN2R2	E 2.2UF, 50V
C1097	ECUX1H103KBX	C 0.01UF, K, 50V	C1171	ECEA1HKN2R2	E 2.2UF, 50V
C1098	ECEA1CKA101	E 100UF, 16V	C1172	ECEA1HKA100	E 10UF, 50V
C1100	ECUX1H103KBX	C 0.01UF, K, 50V	C1173	ECEA1HKA2R2	E 2.2UF, 50V
C1101	ECEA1VKA470	E 47UF, 35V	C1174	ECEA1HKA2R2	E 2.2UF, 50V
C1102	ECEA1HKA2R2	E 2.2UF, 50V	C1175	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1103	ECEA1HKA010	E 1UF, 50V	C1176	ECUX1H101JCX	C 100PF, J, 50V
C1104	ECUX1H123KBX	C 0.012UF, K, 50V	C1177	ECUX1H103KBX	C 0.01UF, K, 50V
C1105	ECEA1CKA101	E 100UF, 16V	C1178	ECUX1H121JCX	C 120PF, J, 50V
C1106	ECUX1H103KBX	C 0.01UF, K, 50V	C1179	ECUX1H101JCX	C 100PF, J, 50V
C1107	ECEA1HKA100	E 10UF, 50V	C1180	ECUX1H103KBX	C 0.01UF, K, 50V
C1108	ECEA1HKA0R1	E 0.1UF, 50V	C1181	ECUX1H103KBX	C 0.01UF, K, 50V
C1109	ECUX1H103KBX	C 0.01UF, K, 50V	C1182	ECUX1H103KBX	C 0.01UF, K, 50V
C1110	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1183	ECUX1H103KBX	C 0.01UF, K, 50V
C1111	ECEA1CKA101	E 100UF, 16V	C1184	ECUX1H103KBX	C 0.01UF, K, 50V
C1112	ECUX1H103KBX	C 0.01UF, K, 50V	C1185	ECEA1HKA220	E 22UF, 50V
C1113	ECEA1HKA0R1	E 0.1UF, 50V	C1186	ECUX1H103KBX	C 0.01UF, K, 50V
C1114	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1187	ECUX1H103KBX	C 0.01UF, K, 50V
C1115	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1194	ECEA1EKN220	E 22UF, 25V
C1116	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1195	ECEA1EKN220	E 22UF, 25V
C1117	ECEA1HKA010	E 1UF, 50V	C1196	ECEA1EKN220	E 22UF, 25V
C1118	ECUX1H103KBX	C 0.01UF, K, 50V	C1197	ECUX1H103KBX	C 0.01UF, K, 50V
C1119	ECEA1HKA010	E 1UF, 50V	C1198	ECEA1CKA470	E 47UF, 16V
C1120	ECEA1HKN2R2	E 2.2UF, 50V	C1199	ECUX1H103KBX	C 0.01UF, K, 50V
C1121	ECUX1H820JCX	C 82PF, J, 50V	C1200	ECUX1H103KBX	C 0.01UF, K, 50V
C1122	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1201	ECUX1H103KBX	C 0.01UF, K, 50V
C1123	ECUX1H560JCX	C 56PF, J, 50V	C1202	ECUX1H103KBX	C 0.01UF, K, 50V
C1124	ECEA1HKA100	E 10UF, 50V	C1203	ECEA1HKA2R2	E 2.2UF, 50V
C1125	ECUX1H224ZFX	C 2700PF, Z, 50V	C1205	ECUX1H101JCX	C 100PF, J, 50V
C1126	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1206	ECUX1H101JCX	C 100PF, J, 50V
C1128	ECEA1HKA100	E 10UF, 50V	C1207	ECEA1HKA010	E 1UF, 50V
C1129	ECEA1CKA101	E 100UF, 16V	C1208	ECUX1H103KBX	C 0.01UF, K, 50V
C1130	ECEA1HKA100	E 10UF, 50V	C1209	ECEA1HKA010	E 1UF, 50V
C1131	ECUX1E473KBX	C 0.047UF, K, 25V	C1210	ECUX1H103KBX	C 0.01UF, K, 50V
C1132	ECEA1HKA010	E 1UF, 50V	C1211	ECEA1HKA010	E 1UF, 50V
C1133	ECUX1H103KBX	C 0.01UF, K, 50V	C1212	ECUX1H103KBX	C 0.01UF, K, 50V
C1134	ECUX1H103KBX	C 0.01UF, K, 50V	C1213	ECUX1H103KBX	C 0.01UF, K, 50V
C1135	ECEA1VKA470	E 47UF, 35V	C1218	ECEA1CKA101	E 100UF, 16V
C1136	ECUX1H103KBX	C 0.01UF, K, 50V	C1219	ECUX1H103KBX	C 0.01UF, K, 50V
C1137	ECEA1HKA0R1	E 0.1UF, 50V	C1237	ECUX1H680JCX	C 68PF, J, 50V
C1138	ECUX1H223KBX	C 0.022UF, K, 50V	C1239	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1139	ECUX1H090CCX	C 9PF, 50V	C1240	ECUX1H680JCX	C 68PF, J, 50V
C1140	ECUX1H120JCX	C 12PF, J, 50V	C1242	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1141	ECUX1H223KBX	C 0.022UF, K, 50V	C1243	ECUX1H680JCX	C 68PF, J, 50V
C1142	ECUX1H102JCX	C 1000PF, J, 50V	C1245	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1143	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1246	ECUX1H103KBX	C 0.01UF, K, 50V
C1144	ECUX1H223KBX	C 0.022UF, K, 50V	C1247	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1145	ECUX1H103KBX	C 0.01UF, K, 50V	C1248	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1146	ECEA1VKA470	E 47UF, 35V	C1249	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1147	ECUX1H271JCX	C 270PF, J, 50V	C1250	ECEA1HKA010	E 1UF, 50V
C1151	ECUX1H103KBX	C 0.01UF, K, 50V	C1251	ECUX1H472KBX	C 4700PF, K, 50V
C1152	ECEA1HKA0R1	E 0.1UF, 50V	C1252	ECUX1H103KBX	C 0.01UF, K, 50V
C1153	ECUX1H473ZFX	C 0.047UF, Z, 50V	C1253	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1154	ECUX1H103KBX	C 0.01UF, K, 50V	C1254	ECEA1CKN330	E 33UF, 16V
C1155	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1255	ECEA1CKN330	E 33UF, 16V
C1156	ECEA1VKA470	E 47UF, 35V	C1256	ECEA1CKN330	E 33UF, 16V
C1157	ECUX1E473KBX	C 0.047UF, K, 25V	C1257	ECEA1CKN220	E 22UF, 16V
C1158	ECEA1HKA100	E 10UF, 50V	C1258	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1159	ECUX1H104ZFX	C 0.1UF, Z, 50V	C1259	ECUX1H470JCX	C 47PF, J, 50V
C1160	ECEA1HKNR47	E 0.47UF, 50V	C1260	ECUX1H121JCX	C 120PF, J, 50V
C1161	ECEA1HKAR47	E 0.47UF, 50V	C1261	ECEA1CKN220	E 22UF, 16V
C1162	ECEA1HKAR47	E 0.47UF, 50V	C1263	ECUX1H103KBX	C 0.01UF, K, 50V
C1163	ECEA1CKA101	E 100UF, 16V	C1264	ECA1CM331G	E 330UF, 16V
C1164	ECUX1H103KBX	C 0.01UF, K, 50V	C1265	ECUX1H102JCX	C 1000PF, J, 50V
C1165	ECEA1VKA470	E 47UF, 35V	C1266	ECEA1CKN470	E 47UF, 16V
C1166	ECEA1HKA0R1	E 0.1UF, 50V	C1267	ECUX1H102JCX	C 1000PF, J, 50V
C1167	ECEA1HKNR47	E 0.47UF, 50V	C1268	ECEA1CKN470	E 47UF, 16V
C1168	ECEA1HKNR47	E 0.47UF, 50V	C1269	ECUX1H102JCX	C 1000PF, J, 50V
C1169	ECUX1H103KBX	C 0.01UF, K, 50V	C1270	ECEA1CKN470	E 47UF, 16V



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C1271	ECUX1H102JCX	C 1000PF, J, 50V	C2053	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1272	ECEA1CKN470	E 47UF, 16V	C2054	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1273	ECUX1H102JCX	C 1000PF, J, 50V	C2055	ECEA1EKA470	E 47UF, 25V
C1274	ECEA1CKN470	E 47UF, 16V	C2056	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1275	ECUX1H102JCX	C 1000PF, J, 50V	C2057	ECUX1H470JCX	C 47PF, J, 50V
C1276	ECEA1CKN470	E 47UF, 16V	C2058	ECUX1H470JCX	C 47PF, J, 50V
C1277	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2059	ECUX1C105ZFX	C 1UF, Z, 16V
C1283	ECEA1EKN3R3	E 3.3UF, 25V	C2060	ECUX1C105ZFX	C 1UF, Z, 16V
C1284	ECEA1EKN3R3	E 3.3UF, 25V	C2061	ECUX1H102JCX	C 1000PF, J, 50V
C1285	ECEA1EKN3R3	E 3.3UF, 25V	C2062	ECUX1H102JCX	C 1000PF, J, 50V
C1286	ECUX1H681JCX	C 680PF, J, 50V	C2063	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1287	ECUX1H681JCX	C 680PF, J, 50V	C2064	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1288	ECUX1H681JCX	C 680PF, J, 50V	C2065	ECUX1H102JCX	C 1000PF, J, 50V
C1300	ECUX1H150JCX	C 15PF, J, 50V	C2066	ECUX1H102JCX	C 1000PF, J, 50V
C1301	ECUX1H150JCX	C 15PF, J, 50V	C2067	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1302	ECUX1H270JCX	C 27PF, J, 50V	C2068	ECUX1H102JCX	C 1000PF, J, 50V
C1303	ECEA1HKN010	E 1UF, 50V	C2069	ECEA1EKA220	E 22UF, 25V
C1305	ECUX1H080CCX	C 8PF, C, 50V	C2070	ECEA1EKA220	E 22UF, 25V
C1306	ECUX1H080CCX	C 8PF, C, 50V	C2071	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1307	ECUX1H080CCX	C 8PF, C, 50V	C2072	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1310	ECUX1H101JCX	C 100PF, J, 50V	C2073	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1311	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	C2074	ECUX1H104ZFX	C 0.1UF, Z, 50V
C1313	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2075	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2001	ECUX1C105ZFX	C 1UF, Z, 16V	C2076	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2002	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2077	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2003	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2078	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2004	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2079	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2005	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2080	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2006	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2081	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2007	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2082	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2008	ECUX1C105ZFX	C 1UF, Z, 16V	C2083	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2009	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2084	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2010	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2085	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2011	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2086	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2012	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2087	ECEA1CGE221	E 220UF, 16V
C2013	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2088	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2014	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2089	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2015	ECUX1C105ZFX	C 1UF, Z, 16V	C2090	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2016	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2091	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2017	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2092	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2018	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2093	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2019	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2094	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2020	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2095	ECUX1C105ZFX	C 1UF, Z, 16V
C2021	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2096	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2022	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2097	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2023	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2098	ECA1CM471	E 470UF, 16V
C2024	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2099	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2025	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2100	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2026	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2101	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2027	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2102	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2030	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2103	ECUX1H102JCX	C 1000PF, J, 50V
C2031	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2104	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2032	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2105	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2033	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2106	ECA1CM471	E 470UF, 16V
C2034	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2107	ECUX1C105ZFX	C 1UF, Z, 16V
C2035	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2108	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2036	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2109	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2037	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2110	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2038	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2111	ECUX1C105ZFX	C 1UF, Z, 16V
C2039	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2112	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2042	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2113	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2043	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2114	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2044	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2115	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2045	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2116	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2046	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2117	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2047	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2118	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2048	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2119	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2049	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2120	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2050	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2121	ECUX1H104ZFX	C 0.1UF, Z, 50V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C2122	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2224	ECHU1C223JA5	P 0.022UF, 16V
C2123	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2225	ECHU1C223JA5	P 0.022UF, 16V
C2124	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2226	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2125	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2227	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2126	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2228	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2127	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2229	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2128	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2230	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2129	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2231	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2130	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2232	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2131	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2233	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2132	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2234	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2133	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2235	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2134	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2236	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2135	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2237	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2136	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2241	ECUX1H470JCX	C 47PF, J, 50V
C2137	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2242	ECUX1H470JCX	C 47PF, J, 50V
C2138	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2243	ECUX1H470JCX	C 47PF, J, 50V
C2139	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2244	ECHU1C223JA5	P 0.022UF, 16V
C2140	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2245	ECHU1C223JA5	P 0.022UF, 16V
C2141	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2246	ECHU1C223JA5	P 0.022UF, 16V
C2142	ECA1EM221G	E 220UF, 25V	C2247	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2143	ECEA1AKA221	E 220UF, 10V	C2248	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2144	ECA1EM221G	E 220UF, 25V	C2249	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2145	ECEA1AKA221	E 220UF, 10V	C2250	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2146	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2251	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2148	ECA1EM221G	E 220UF, 25V	C2252	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2149	ECA1EM221G	E 220UF, 25V	C2253	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2150	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2254	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2151	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2255	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2152	ECUX1H103KBX	C 0.01UF, K, 50V	C2256	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2153	ECA1AM471	E 470 UF, 10V	C2257	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2154	ECA1AM471	E 470 UF, 10V	C2258	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2155	ECA1AM471	E 470 UF, 10V	C2262	ECUX1H103KBX	C 0.01UF, K, 50V
C2156	ECEA1AGE221	E 220UF, 10V	C2263	ECUX1H103KBX	C 0.01UF, K, 50V
C2160	ECUX1H101JCX	C 100PF, J, 50V	C2264	ECUX1H103KBX	C 0.01UF, K, 50V
C2161	ECUX1H101JCX	C 100PF, J, 50V	C2265	ECUX1H103KBX	C 0.01UF, K, 50V
C2162	ECUX1H101JCX	C 100PF, J, 50V	C2266	ECUX1H103KBX	C 0.01UF, K, 50V
C2163	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2267	ECUX1H103KBX	C 0.01UF, K, 50V
C2164	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2268	ECUX1H103KBX	C 0.01UF, K, 50V
C2165	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2269	ECUX1H103KBX	C 0.01UF, K, 50V
C2166	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2270	ECUX1H103KBX	C 0.01UF, K, 50V
C2167	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2271	ECUX1H103KBX	C 0.01UF, K, 50V
C2168	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2272	ECUX1H103KBX	C 0.01UF, K, 50V
C2169	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2273	ECUX1H103KBX	C 0.01UF, K, 50V
C2170	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2274	ECUX1H103KBX	C 0.01UF, K, 50V
C2171	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2275	ECUX1H103KBX	C 0.01UF, K, 50V
C2201	ECUX1H103KBX	C 0.01UF, K, 50V	C2276	ECUX1H103KBX	C 0.01UF, K, 50V
C2202	ECUX1H103KBX	C 0.01UF, K, 50V	C2277	ECUX1H103KBX	C 0.01UF, K, 50V
C2203	ECUX1H103KBX	C 0.01UF, K, 50V	C2278	ECUX1H103KBX	C 0.01UF, K, 50V
C2204	ECUX1H103KBX	C 0.01UF, K, 50V	C2279	ECUX1H103KBX	C 0.01UF, K, 50V
C2205	ECUX1H103KBX	C 0.01UF, K, 50V	C2280	ECUX1H103KBX	C 0.01UF, K, 50V
C2206	ECUX1H680JCX	C 68PF, J, 50V	C2281	ECUX1H103KBX	C 0.01UF, K, 50V
C2207	ECUX1H680JCX	C 68PF, J, 50V	C2282	ECUX1H103KBX	C 0.01UF, K, 50V
C2208	ECUX1H103KBX	C 0.01UF, K, 50V	C2283	ECUX1H103KBX	C 0.01UF, K, 50V
C2209	TCUY1C105ZFN	C 1UF, 16V	C2284	ECUX1H103KBX	C 0.01UF, K, 50V
C2210	ECUX1H121JCX	C 120PF, J, 50V	C2285	ECUX1H103KBX	C 0.01UF, K, 50V
C2211	ECUX1H104ZFX	C 0.1UF, Z, 50V	C2286	ECUX1H103KBX	C 0.01UF, K, 50V
C2212	TCUY1C105ZFN	C 1UF, 16V	C2287	ECUX1H103KBX	C 0.01UF, K, 50V
C2213	ECUX1H103KBX	C 0.01UF, K, 50V	C2288	ECUX1H103KBX	C 0.01UF, K, 50V
C2214	ECUX1H103KBX	C 0.01UF, K, 50V	C2289	ECUX1H103KBX	C 0.01UF, K, 50V
C2215	ECUX1H103KBX	C 0.01UF, K, 50V	C2290	ECUX1H103KBX	C 0.01UF, K, 50V
C2216	ECUX1H103KBX	C 0.01UF, K, 50V	C2291	ECUX1H103KBX	C 0.01UF, K, 50V
C2217	ECUX1H103KBX	C 0.01UF, K, 50V	C2292	ECUX1H103KBX	C 0.01UF, K, 50V
C2218	ECUX1H103KBX	C 0.01UF, K, 50V	C2293	ECUX1H103KBX	C 0.01UF, K, 50V
C2219	ECUX1H103KBX	C 0.01UF, K, 50V	C2294	ECUX1H103KBX	C 0.01UF, K, 50V
C2220	ECUX1H470JCX	C 47PF, J, 50V	C2299	ECUX1H103KBX	C 0.01UF, K, 50V
C2221	ECUX1H470JCX	C 47PF, J, 50V	C2304	ECUX1H330JCX	C 33PF, J, 50V
C2222	ECUX1H470JCX	C 47PF, J, 50V	C2306	ECUX1H330JCX	C 33PF, J, 50V
C2223	ECHU1C223JA5	P 0.022UF, 16V	C2310	ECUX1H103KBX	C 0.01UF, K, 50V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C2311	ECUX1H103KBX	C 0.01UF, K, 50V	C7009	ECUX1H102JCX	C 1000PF, J, 50V
C2312	ECUX1H103KBX	C 0.01UF, K, 50V	C7011	ECEA1EKA220	E 22UF, 25V
C2313	ECUX1H103KBX	C 0.01UF, K, 50V	C7012	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2314	ECUX1H103KBX	C 0.01UF, K, 50V	C7013	ECUX1H330JCX	C 33PF, J, 50V
C2315	ECUX1H103KBX	C 0.01UF, K, 50V	C7014	ECUX1H330JCX	C 33PF, J, 50V
C2316	ECUX1H103KBX	C 0.01UF, K, 50V	C7015	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2317	ECUX1H103KBX	C 0.01UF, K, 50V	C7016	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2320	ECUX1H103KBX	C 0.01UF, K, 50V	C7017	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2321	ECUX1H103KBX	C 0.01UF, K, 50V	C7018	ECUX1H102JCX	C 1000PF, J, 50V
C2322	ECUX1H103KBX	C 0.01UF, K, 50V	C7019	ECUX1H333ZFX	C 0.033UF, Z, 50V
C2323	ECUX1H103KBX	C 0.01UF, K, 50V	C7020	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2324	ECUX1H103KBX	C 0.01UF, K, 50V	C7021	ECUX1H102JCX	C 1000PF, J, 50V
C2325	ECUX1H103KBX	C 0.01UF, K, 50V	C7022	ECUX1H102JCX	C 1000PF, J, 50V
C2326	ECUX1H103KBX	C 0.01UF, K, 50V	C7023	ECUX1H102JCX	C 1000PF, J, 50V
C2327	ECUX1H103KBX	C 0.01UF, K, 50V	C7024	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2350	ECEA1CKA101	E 100UF, 16V	C7025	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2351	ECEA1CKA101	E 100UF, 16V	C7026	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2352	ECEV1CG470GP	E 47UF, 16V	C7027	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2353	ECA1CM471	E 470UF, 16V	C7028	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2354	ECA1CM471	E 470UF, 16V	C7029	ECA1CM471	E 470UF, 16V
C2355	ECEV1CG470GP	E 47UF, 16V	C7030	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2356	ECEV1CG470GP	E 47UF, 16V	C7031	ECEA1EKA220	E 22UF, 25V
C2357	ECEA1CKA220	E 22UF, 16V	C7032	ECEA1EKA220	E 22UF, 25V
C2358	ECEV1CG220GP	E 22UF, 16V	C7033	ECUX1H102JCX	C 1000PF, J, 50V
C2359	ECEA1CKA470	E 47UF, 16V	C7034	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2360	ECEA1CKA101	E 100UF, 16V	C7035	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2361	ECEA1EKA4R7	E 4.7UF, 25V	C7036	ECEA1AGE221	E 220UF, 10V
C2362	ECEA1EKA4R7	E 4.7UF, 25V	C7037	ECA1EM221G	E 220UF, 25V
C2363	ECEA1EKA4R7	E 4.7UF, 25V	C7038	ECEA1EKA220	E 22UF, 25V
C2364	ECEA1EKA4R7	E 4.7UF, 25V	C7039	ECUX1H102JCX	C 1000PF, J, 50V
C2365	ECEA1EKA4R7	E 4.7UF, 25V	C7040	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2366	ECEA1EKA4R7	E 4.7UF, 25V	C7041	ECA1EM221G	E 220UF, 25V
C2367	ECEA1CKA470	E 47UF, 16V	C7042	ECUX1H102JCX	C 1000PF, J, 50V
C2368	ECEA1CKA101	E 100UF, 16V	C7043	ECUX1H102JCX	C 1000PF, J, 50V
C2369	ECEA1EKA4R7	E 4.7UF, 25V	C7044	ECUX1H101JCX	C 100PF, J, 50V
C2370	ECEA1EKA4R7	E 4.7UF, 25V	C7045	ECUX1H101JCX	C 100PF, J, 50V
C2371	ECEA1EKA4R7	E 4.7UF, 25V	C7046	ECUX1C105ZFX	C 1UF, Z, 16V
C2372	ECEA1EKA4R7	E 4.7UF, 25V	C7047	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2373	ECEA1EKA4R7	E 4.7UF, 25V	C7048	ECEA1EKA101	E 100UF, 25V
C2374	ECEA1EKA4R7	E 4.7UF, 25V	C7049	ECEA1EKA101	E 100UF, 25V
C2375	ECEA1CKA470	E 47UF, 16V	C7050	ECEA1AKA470	E 47UF, 10V
C2376	ECEA1CKA470	E 47UF, 16V	C7051	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2377	ECEA1CKA470	E 47UF, 16V	C7052	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2378	ECA1CM471	E 470UF, 16V	C7053	ECEA1AKA470	E 47UF, 10V
C2379	ECA1CM471	E 470UF, 16V	C7501	ECEA1CKA330	E 33UF, 16V
C2380	ECA1CM471	E 470UF, 16V	C7502	ECEA1CKA330	E 33UF, 16V
C2381	ECA1CM471	E 470UF, 16V	C7503	ECEA1CKA330	E 33UF, 16V
C2424	ECUX1H330JCX	C 33PF, J, 50V	C7507	ECUX1H103KBX	C 0.01UF, K, 50V
C2428	ECUX1H101JCX	C 100PF, J, 50V	C7509	ECEA1CKA330	E 33UF, 16V
C2440	ECUX1H330JCX	C 33PF, J, 50V	C7510	ECEA1CKA330	E 33UF, 16V
C2441	ECUX1H330JCX	C 33PF, J, 50V	C7511	ECEA1CKA330	E 33UF, 16V
C2443	ECUX1H330JCX	C 33PF, J, 50V	C7514	ECUX1H103KBX	C 0.01UF, K, 50V
C2444	ECUX1H101JCX	C 100PF, J, 50V	C7515	ECUX1H103KBX	C 0.01UF, K, 50V
C2445	ECUX1H330JCX	C 33PF, J, 50V	C7516	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2446	ECUX1H330JCX	C 33PF, J, 50V	C7519	ECUX1H103KBX	C 0.01UF, K, 50V
C2447	ECUX1H101JCX	C 100PF, J, 50V	C7520	ECEA1CKA101	E 100UF, 16V
C2448	ECUX1H101JCX	C 100PF, J, 50V	C7521	ECEA1CKA101	E 100UF, 16V
C2449	ECUX1H101JCX	C 100PF, J, 50V	C7522	ECUX1H103KBX	C 0.01UF, K, 50V
C2450	ECUX1H101JCX	C 100PF, J, 50V	C7523	ECEA1AKA101	E 100UF, 10V
C2451	ECUX1H101JCX	C 100PF, J, 50V	C7524	ECUX1H103KBX	C 0.01UF, K, 50V
C2452	ECUX1H330JCX	C 33PF, J, 50V	C7525	ECEA1CKN100	E 10UF, 16V
C7001	ECUX1H101JCX	C 100PF, J, 50V	C7526	ECUX1C105ZFX	C 1UF, Z, 16V
C7002	ECUX1H101JCX	C 100PF, J, 50V	C7527	ECUX1H151JCX	C 150PF, J, 50V
C7003	ECUX1H101JCX	C 100PF, J, 50V	C7528	ECEA1CKN100	E 10UF, 16V
C7004	ECUX1H101JCX	C 100PF, J, 50V	C7529	ECEA1HKN3R3	E 3.3UF, 50V
C7005	ECUX1H102JCX	C 1000PF, J, 50V	C7530	ECUX1H220JCX	C 22PF, J, 50V
C7006	ECUX1H102JCX	C 1000PF, J, 50V	C7531	ECUX1H470JCX	C 47PF, J, 50V
C7007	ECUX1H101JCX	C 100PF, J, 50V	C7532	ECEA1CKN100	E 10UF, 16V
C7008	ECUX1H101JCX	C 100PF, J, 50V	C7533	ECUX1C105ZFX	C 1UF, Z, 16V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C7534	ECUX1H151JCX	C 150PF, J, 50V	C7813	ECUX1H104ZFX	C 0.1UF, Z, 50V
C7535	ECEA1CKN100	E 10UF, 16V	C7814	ECA1VM221G	E 220UF, 35V
C7536	ECEA1HKN3R3	E 3.3UF, 50V	C7815	ECA1VM221G	E 220UF, 35V
C7537	ECUX1H220JCX	C 22PF, J, 50V	C7816	ECEA1EN470U	E 47UF, 25V
C7538	ECUX1H470JCX	C 47PF, J, 50V	C7817	ECUX1H104ZFX	C 0.1UF, Z, 50V
C7539	ECEA1EKA4R7	E 4.7UF, 25V	C7818	ECA1CM102	E 1000UF, 16V
C7540	ECUX1H101JCX	C 100PF, J, 50V	C7819	ECA1VM470	E 47UF, 35V
C7541	ECUX1H102JCX	C 1000PF, J, 50V	C7820	ECEA1CKA100	E 10UF, 16V
C7542	ECEA1CKA100	E 10UF, 16V	C7901	ECUX1H103KBX	C 0.01UF, K, 50V
C7543	ECUX1H102JCX	C 1000PF, J, 50V	C7902	TAC16SA33MF1	ELECTROLYTIC CAPACITOR
C7544	ECUX1H103KBX	C 0.01UF, K, 50V	C7903	ECEA1CKA470	E 47UF, 16V
C7545	ECUX1H103KBX	C 0.01UF, K, 50V	C7904	ECUX1H103KBX	C 0.01UF, K, 50V
C7546	ECUX1H103KBX	C 0.01UF, K, 50V	C9101	ECQU2A224MN	P 0.22UF, M, 250V
C7547	ECUX1H103KBX	C 0.01UF, K, 50V	C9102	ECKCNS222MEJ	C 2200PF, M, 250V
C7548	ECUX1H103KBX	C 0.01UF, K, 50V	C9103	ECKCNS222MEJ	C 2200PF, M, 250V
C7549	ECUX1H103KBX	C 0.01UF, K, 50V	C9104	ECQE2A474MW	P 0.47UF, 250V
C7550	ECA1EM471	E 470UF, 25V	C9105	ECQE2A474MW	P 0.47UF, 250V
C7551	ECA1EM471	E 470UF, 25V	C9106	ECQE2A474MW	P 0.47UF, 250V
C7552	ECA1EM471	E 470UF, 25V	C9201	ECQU2A105MV	P 1UF, M, 250V
C7553	ECUX1H103KBX	C 0.01UF, K, 50V	C9203	ECKDNB472ME	C 4700PF, M
C7554	ECEA1CKN100	E 10UF, 16V	C9204	ECKDNB472ME	C 4700PF, M
C7555	ECEA1CKN100	E 10UF, 16V	C9205	ECKDNB472ME	C 4700PF, M
C7556	ECEA1CKN100	E 10UF, 16V	C9206	ECQE6225JF	P 2.2UF, J, 630V
C7557	ECEA1HKNR47	E 0.47UF, 50V	C9207	ECKD3D221JBP	C 220PF, J, 2KV
C7601	ECEA1CKA470	E 47UF, 16V	C9208	EC0S2WB151DB	E 150UF, 450V
C7602	ECEA1CKA470	E 47UF, 16V	C9209	ECUX1H103KBX	C 0.01UF, K, 50V
C7603	ECEA1CKA470	E 47UF, 16V	C9211	ECEA1HGE221	E 220UF, 50V
C7604	ECEA1CKA470	E 47UF, 16V	C9212	ECKD3A122KBP	C 1200PF, K, 1KV
C7605	ECEA1CKA470	E 47UF, 16V	C9213	ECUX1H103KBX	C 0.01UF, K, 50V
C7606	ECEA1CKA470	E 47UF, 16V	C9214	ECEA1VGE331	E 330UF, 35V
C7607	ECUX1H103KBX	C 0.01UF, K, 50V	C9215	ECEA1HGE2R2	E 2.2UF, 50V
C7608	ECUX1H103KBX	C 0.01UF, K, 50V	C9216	ECUX1H121JCX	C 120PF, J, 50V
C7609	ECEA1HKN010	E 1UF, 50V	C9217	ECUX1H681JCX	C 680PF, J, 50V
C7610	ECEA1CKA220	E 22UF, 16V	C9218	ECUX1H472KBX	C 4700PF, K, 50V
C7611	ECEA1HKA4R7	E 4.7UF, 50V	C9219	ECUX1H471JCX	C 470PF, J, 50V
C7612	ECEA1HKN010	E 1UF, 50V	C9220	ECUX1H101JCX	C 100PF, J, 50V
C7613	ECEA1CKA100	E 10UF, 16V	C9221	ECEA1HN010U	E 1UF, 50V
C7614	ECEA1CKA100	E 10UF, 16V	C9222	ECUX1H103KBX	C 0.01UF, K, 50V
C7615	ECUX1H272KBX	C 2700PF, K, 50V	C9223	ECQB1H104JF	P 0.1UF, J, 50V
C7616	ECUX1H272KBX	C 2700PF, K, 50V	C9224	ECEA1VGE471	E 470UF, 35V
C7617	ECEA1EKA470	E 47UF, 25V	C9225	ECKD3A152KBP	C 1500PF, K, 1KV
C7618	ECEA1HKN010	E 1UF, 50V	C9226	ECQE6153KF	P 0.015UF, J, 630V
C7619	ECEA1HKN010	E 1UF, 50V	C9227	ECEA1CGE221	E 220UF, 16V
C7701	ECUX1H330JCX	C 33PF, J, 50V	C9228	ECQB1H104JF	P 0.1UF, J, 50V
C7702	ECUX1H330JCX	C 33PF, J, 50V	C9229	ECKD3D221JBP	C 220PF, J, 2KV
C7703	ECUX1H104ZFX	C 0.1UF, Z, 50V	C9230	ECKCNA102MBX	C 1000PF, M, 25V
C7704	ECUX1H103KBX	C 0.01UF, K, 50V	C9231	ECEA1EGE221	E 220UF, 450V
C7705	ECUX1H104ZFX	C 0.1UF, Z, 50V	C9232	EC0S2WB151DB	E 150UF, 450V
C7706	ECUX1H330JCX	C 33PF, J, 50V	C9233	EC0S2WB151DB	E 150UF, 450V
C7707	ECUX1H330JCX	C 33PF, J, 50V	C9234	ECEA1HGE3R3	E 3.3UF, 50V
C7708	ECUX1H104ZFX	C 0.1UF, Z, 50V	C9301	EEUFA1C332	E 3300UF, 25V
C7709	ECUX1C105ZFX	C 1UF, Z, 16V	C9302	EEUFA1E222	E 2200UF, 25V
C7710	ECUX1C105ZFX	C 1UF, Z, 16V	C9303	EEUFA1E102	E 1000UF, 25V
C7711	ECUX1C105ZFX	C 1UF, Z, 16V	C9304	EEUFA1C102	E 1000UF, 16V
C7712	ECUX1C105ZFX	C 1UF, Z, 16V	C9305	EEUFA1V471	E 470UF, 35V
C7713	ECUX1H221JCX	C 220PF, J, 50V	C9307	ECEA1HGE100	E 10UF, 50V
C7714	ECUX1H221JCX	C 220PF, J, 50V	C9308	ECQB1H224JF	P 0.22UF, J, 50V
C7801	ECEA1CKA470	E 47UF, 16V	C9309	EEUFA1E222	E 2200UF, 25V
C7802	ECUX1H103KBX	C 0.01UF, K, 50V	C9310	ECUX1H103KBX	C 0.01UF, K, 50V
C7803	ECEA1CKA100	E 10UF, 16V	C9311	ECEA1EGE101	E 100UF, 25V
C7804	ECEA1CKA100	E 10UF, 16V	C9312	ECUX1H103KBX	C 0.01UF, K, 50V
C7805	ECEA1CKA101	E 100UF, 16V	C9316	ECUX1H103KBX	C 0.01UF, K, 50V
C7806	ECEA1HKN010	E 1UF, 50V	C9317	ECEA1EGE101	E 100UF, 25V
C7807	ECUX1H102JCX	C 1000PF, J, 50V	C9318	ECUX1H103KBX	C 0.01UF, K, 50V
C7808	ECUX1H102JCX	C 1000PF, J, 50V	C9319	ECEA1CGE101	E 100UF, 16V
C7809	ECEA1HKN010	E 1UF, 50V	C9320	ECUX1H103KBX	C 0.01UF, K, 50V
C7810	ECEA1CKA101	E 100UF, 16V	C9321	ECUX1H103KBX	C 0.01UF, K, 50V
C7811	ECA1CM102	E 1000UF, 16V	C9322	ECEA1EGE221	E 220UF, 25V
C7812	ECEA1EN470U	E 47UF, 25V	C9323	ECUX1H103KBX	C 0.01UF, K, 50V



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C9324	ECEA1EGE221	E 220UF, 25V	JK9302	TJC6137	EARTH LUG
C9325	ECUX1C105ZFX	C 1UF, Z, 16V	K1	TJSF20702	3P CONNECTOR
C9327	ECUX1H103KBX	C 0.01UF, K, 50V	K2	TJSF20702	3P CONNECTOR
C9328	ECEA1VGE221	E 220UF, 35V	P1	TJSF20702	3P CONNECTOR
C9329	ECUX1H103KBX	C 0.01UF, K, 50V	P2	TJSF21205	5P CONNECTOR
C9330	ECKD3A101KBP	C 100PF, K, 1KV	P3	TJS3A9920	12P CONNECTOR
C9331	ECKD3A101KBP	C 100PF, K, 1KV	P4	TJS118620	5P CONNECTOR
C9332	ECKD3A101KBP	C 100PF, K, 1KV	P5	TJS118630	6P CONNECTOR
C9333	ECKD3A101KBP	C 100PF, K, 1KV	R1	TJSF21610A	10P CONNECTOR
C9334	ECKD3A101KBP	C 100PF, K, 1KV	RL9201	TSE10821	RELAY
C9335	ECEA1EGE471	E 470UF, 25V	RM1000	TNQ10427	REMOCON RECEIVER (REAR)
C9336	ECEA1CGE471	E 470UF, 16V	RM7901	TNQ10483	REMOCON RECEIVER (FRONT)
C9339	ECEA1CGE471	E 470UF, 16V	RTL	TNPA0665AC	CIRCUIT BOARD D
C9340	ECEA1VGE471	E 470UF, 35V	RTL	TNPA0669AB	CIRCUIT BOARD P
OTHERS			RTL	TNPA1104AA	CIRCUIT BOARD F
A1	TJSF21830	30P CONNECTOR	RTL	TNPA1106AA	CIRCUIT BOARD K
A2	TJSF21830	30P CONNECTOR	RTL	TNPA1107AA	CIRCUIT BOARD R
A3	TJSF21830	30P CONNECTOR	RTL	TNPH0136AG	CIRCUIT BOARD A
A4	TJS3A9120	20P CONNECTOR	RTL	TNPA0673AA	CIRCUIT BOARD S
A5	TJS3A9120	20P CONNECTOR	RTL	TXN/J1VXMZ	CIRCUIT BOARD J
A6	TJSF21730	30P CONNECTOR	S1	TJS1A8100	PHONO PIN (4P)
A7	TJS3A9670	6P CONNECTOR	S2	TJSF21708	8P CONNECTOR
A8	TJS3A9660	5P CONNECTOR	S3	TJSF25306	6P CONNECTOR
A9	TJSF21615A	15P CONNECTOR	X1000	EFCA4R43MB3	CERAMIC FILTER
A10	TJS3A9920	12P CONNECTOR	X1001	TSS816N2	CRYSTAL
A11	TJSF21610A	10P CONNECTOR	X1002	TSS116M1	CRYSTAL OSCILATOR
A12	TJS3A9640	3P CONNECTOR	X1003	TAFCSB503F30	CERAMIC RESONATOR
A13	TJS3A9880	8P CONNECTOR	X2201	TAAA0018	CRYSTAL
A14	TJS3A9640	3P CONNECTOR	X7001	TSSJ012	CRYSTAL
A15	TJSF21608A	8P CONNECTOR	X7701	TAF10059	CERAMIC FILTER
A16	TJS3A9640	3P CONNECTOR	X7702	TAF10059	CERAMIC FILTER
A17	TJS3A9640	3P CONNECTOR			
A18	TJS3A9640	3P CONNECTOR			
A19	TJS118590	2P CONNECTOR			
A20	TJS3A9640	3P CONNECTOR			
A21	TJS3A9650	4P CONNECTOR			
D1	TJSF21710	10P CONNECTOR			
D2	TJS3A9110	10P CONNECTOR			
D3	TJS3A9110	10P CONNECTOR			
F1	TJS3A9670	6P CONNECTOR			
F2	TJSF21614A	14P CONNECTOR			
F3	TJSF21630	30P CONNECTOR			
F8	TJSF21610A	10P CONNECTOR			
J1	TJS1A8120	6P CONNECTOR			
J2	TJSF21714	14P CONNECTOR			
J3	TJSF21715	15P CONNECTOR			
JK1001	TJC6137	EARTH LUG			
JK2201	TJC6137	EARTH LUG			
JK7000	TJC6137	EARTH LUG			
JK7001	TJC6137	EARTH LUG			
JK7501	TJSF25015	15P CONNECTOR			
JK7502	TJSF25015	15P CONNECTOR			
JK7503	TJS2A9010	TEARMINAL			
JK7504	TJBA071	JACK			
JK7505	TJS9A8061	SOCKET TERMINAL			
JK7506	TJS9A8061	SOCKET TERMINAL			
JK7507	TJSF21409	9P D-SUB			
JK7508	TJSF21513	13P SOCKET			
JK7509	TJS9A8061	SOCKET TERMINAL			
JK7510	TJSF25015	15P CONNECTOR			
JK7901	TJC6137	EARTH LUG			
JK9101	TJC6137	EARTH LUG			
JK9102	TJC6137	EARTH LUG			
JK9103	TJC6137	EARTH LUG			
JK9301	TJC6137	EARTH LUG			

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**Memo:**